

COLLEGE OF MEDICINE CURRICULUM VITAE

Richard S. Tyler
9 August, 2007

I. EDUCATIONAL AND PROFESSIONAL HISTORY

A. Institutions attended/ Certification and Licensure

Institution	Dates Attended	Field of Study	Degree Obtained	Date Received
University of Windsor	1971	Science	--	--
University of Western Ontario, London, Ontario	1971 -1974	Communication Disorders	B.Sc. cum laude	1974
University of Western Ontario	1974-1975	Audiology	M.Sc. University Gold Medal	1975
University of Iowa	1975-1978	Psychoacoustics	Ph.D.	1978

Certification and Licensure

Year	License
1985	American Speech-Language-Hearing Association Certificate of Clinical competence (Audiology)
1986	State of Iowa Certificate of Licensure (Audiology) #00248

B. Professional and Academic Positions

Title of Position	Dates	Location or Institution
Staff Scientist, Psycho-acoustician/ Audiologist	1978-1980	Medical Research Council, Institute of Hearing Research, Nottingham, UK
Scientist-In-Charge	1980-1981	Medical Research Council, Institute of Hearing Research, Nottingham Clinical Outstation, Nottingham, UK
Assistant Professor, Director of Audiology	1981-1984	The University of Iowa, Department of Otolaryngology-Head and Neck Surgery, Department of Speech Pathology and Audiology
Associate Professor, Director of Audiology	1984-1987	The University of Iowa, Department of Otolaryngology-Head and Neck Surgery, Department of Speech Pathology and Audiology
Professor Director of Audiology	1987-present	The University of Iowa, Department of Otolaryngology-Head and Neck Surgery, Department of Speech Pathology and Audiology

C. Honors, Awards, Recognition, Outstanding Achievements

Year	Achievement
1970	Windsor Coaches Association Bursary
1973	A.T.A. Trucking Industry Education Foundation Bursary
1974	Faculty Association Scholarship, University of Western Ontario
1974	University Gold Medal, University of Western Ontario
1975	Special University Scholarship, University of Western Ontario
1979	Swedish Institute Guest Scholarship
1980	British Society of Audiology T.S. Littler Prize
1981	Visiting Fellow Award, Commission of the European Communities
1983	3M Faculty Grant
1986	Burrows Welcome Research Travel Grant
1986	NATO Collaborative Research Grant
1987	Visiting Research Fellow, MacQuarrie University, Australia
1988	World Rehabilitation Fund International Exchange of Experts and Information in Rehabilitation (IEEIR) Fellowship
1988	Honorary Professor, Jinzhou Medical University, China
1988	Who's Who in Entertainment
1989	Honorary Visiting Fellow in Audiology, MacQuarrie University, Australia
1994	American Tinnitus Association Special Recognition Award
2001	US Patent #6,295,472 & Trademark for Pseudospontaneous Neural Stimulation System and Method (Issued 9/25/01)
2002	US Patent #6,631,295 B2: System and Method for Diagnosing and/or Reducing Tinnitus (Issued 10/7/03)
2005	The National Academies Institute of Medicine Committee Member on Noise and Military Service: Implications for Hearing Loss and Tinnitus

II. TEACHING AT THE UNIVERSITY OF IOWA

A. Teaching Assignments

Clinical Teaching Year	Title
2006	Seminar Tinnitus
2006	Basic Science: Cochlear Implants, Tinnitus
2005	Seminar Tinnitus
2005	Basic Science: Cochlear Implants, Tinnitus
2004	Basic Science: Cochlear Implants, Tinnitus
2003	Basic Science: Research, Publishing & Scientific Integrity
2003	Basic Science: Basic Acoustics /Psychoacoustics
2003	Basic Science: Cochlear Implants
2003	Basic Science: Tinnitus
2002	Seminar Tinnitus
2002	Basic Science: Research, Publishing & Scientific Integrity
2002	Basic Science: Basic Acoustics /Psychoacoustics
2002	Basic Science: Cochlear Implants
2002	Basic Science: Tinnitus
2001	Seminar in Audiology: Tinnitus treatment
2000	Basic Science: Tinnitus
2000	Basic Science: Cochlear Implants

2000 Basic Science: Research, Publishing & Scientific Integrity
2000 Basic Science: Basic Acoustics /Psychoacoustics
2000 Seminar in Audiology: Tinnitus treatment
1999 Basic Science: Tinnitus
1999 Basic Science: Cochlear Implants
1999 Basic Science: Research, Publishing & Scientific Integrity
1999 Basic Science: Basic Acoustics /Psychoacoustics
1998 Basic Science: Tinnitus
1998 Basic Science: Cochlear Implants
1998 Basic Science: Research, Publishing & Scientific Integrity
1998 Basic Science: Basic Acoustics /Psychoacoustics
1997 Basic Science: Tinnitus
1997 Basic Science: Cochlear Implants
1997 Basic Science: Research, Publishing & Scientific Integrity
1997 Seminar in Audiology: Cochlear implants
1997 Basic Science: Basic Acoustics /Psychoacoustics
1996 Basic Science: Tinnitus
1996 Basic Science: Cochlear Implants
1996 Basic Science: Research, Publishing & Scientific Integrity
1996 Basic Science: Basic Acoustics /Psychoacoustics
Pre -1995 Seminar in Audiology: Cochlear implants
Introductory and Advanced Audiology
Introductory and Advanced Hearing Science
Hearing and Noise
Speech and Hearing Processes
Tinnitus
Hearing Aids
Models of Hearing
Basic Science for Otolaryngology Residents
Biomedical Engineering Seminar
Seminars in Clinical Audiology
Auditory Evoked Potentials
Cochlear Implants
Refresher Courses for Family Physicians
Lectures on Aging in Bio-medical Engineering Department
Audiology teaching to residents and staff

B. Graduate Students Supervised

Name	Degree Objective	Outcome
A. Parkinson	Ph.D.	Passed
K.T. Kavanagh	M.Sc.	Passed
M.J. Shailer	M.Sc.	Passed
John Preece	Ph.D.	Passed
Charissa Lansing	Ph.D.	Passed

C. Visiting Fellows

Name	Residence	Dates	Focus
James L. Stouffer, Ph.D.	London, Ontario, Canada	August 1988- July 1989	Tinnitus Stat
Kazuo Murai, M.D.	Morioka, Iwate, Japan	September 1988 - February 1989	Pharmacology of Tinnitus
F. Bergeron, M.Sc.	Charlesbourg, Quebec, Canada	May 1990 - June 1990	Cochlear Implant Selection Criteria
Philippe Hubert, MSc. E.E.	Bordeaux, France	June 1993 – September 1993	Cochlear Implants
Zhengguo Zhang, Ph.D.	Beijing, China	August 1995 – February 1996	Cochlear Implants in Children
Rafael Quinonez, Ph.D.	University of Iowa	September 1995 - August 1996	Iowa Cochlear Implant Clinical Research Center Project III (Supplement)/NIDC Project 1-Audiology (Clear Speech)
John Preece, Ph.D.	University of Iowa	August 2000 – April 2001	Tinnitus and Cochlear Implants
Richard Van Hoesel, Ph.D.	The University of Melbourne, Australia	November 2000 - December 2000	Codependent Binaural Cochlear Implants
Shigeyo Nagase	Tokyo Medical University, Japan	April 2002- October 2002	Cochlear Implants
Sang-Hee Park	Korea	February 2004 – February 2005	Cochlear Implants
William Noble, Ph.D.	University of New England, Armidale, Australia	January 2005- December 2005	Binaural Hearing Tinnitus
Claudia Coelho, M.D.	Brazil	January 2004- February 2006	Hyperacusis
Inas Ramadan, M.D.	Egypt	December 2005 –2006	Cochlear Implants Tinnitus
Pan Tao, MD.	People's Republic of China	December 2006 -2007	Cochlear Implants Tinnitus

III. SCHOLARSHIP

A. Publications or creative works

Peer-reviewed papers

- 1 Tyler RS. (1976). Temporal integration and cochlear hearing loss. **Human**

- Communication, 1:** 9-24.
- 2 Yovetich WS, Booth JC, and Tyler RS. (1977). The effect of dysfluencies on
attention in stutterers and non-stutterers. **Human Communication, 2:** 29-36.
- 3 Tyler RS, Small AM. (1977). Two-tone suppression in backward masking. **Journal
of the Acoustical Society of America, 62:** 215-218.
- 4 Tyler RS, Dalzell LE. (1977). Derived whole nerve action potentials in response to
low-frequency stimuli. **Human Communication, 2:** 159-168.
- 5 Small AM, Tyler RS. (1978). Additive masking effects on noise bands of different
levels. **Journal of the Acoustical Society of America, 63:** 894-904.
- 6 Tyler RS, Small AM, Abbas PJ. (1979). Unmasking produced by combination
tones. **Journal of the Acoustical Society of America, 63:**379-387.
- 7 Tyler RS. (1979). Measuring hearing loss in the future. **British Journal of
Audiology, 13**(Suppl. 2): 29-40.
- 8 Tyler RS, Wood EJ. (1980). A comparison of manual methods for measuring
hearing levels. **Audiology, 19:** 316-329.
- 9 Tyler RS. (1980). Combination tones and unmasking. Nonlinear and active
processes in the cochlea. **Hearing Research, 2:** 357-368.
- 10 Tyler RS, Fernandes M, Wood EJ. (1980). Masking, temporal integration and
speech intelligibility in listeners with noise-induced hearing loss. In: I. Taylor and
A. Markides (eds.), **Disorders of Auditory Function III**, Academic Press.
- 11 Tyler RS, Summerfield AQ. (1980). Psychoacoustical and phonetic measures of
temporal processing in normal and hearing-impaired listeners. In: B. Van den
Brink and F.A. Bilsen (eds.), **Psychophysical, Physiological and Behavioral
Studies in Hearing**, Delft University Press.
- 12 Shailer M, Tyler RS, Coles RRA. (1981). Critical masking bands for sensorineural
tinnitus. **Scandinavian Audiology, 10:** 157-167.
- 13 Tyler RS, Fernandes M, Wood EJ. (1982). Masking of pure tones by broad-band
noise in cochlear-impaired listeners. **Journal of Speech and Hearing
Research, 25:** 117-124.
- 14 Tyler RS, Lindblom B. (1982). Preliminary study of simultaneous-masking and
pulsation-threshold patterns of vowels. **Journal of the Acoustical Society of
America, 71:** 220-224.
- 15 Tyler RS, Wood EJ, Fernandes M. (1982). Frequency resolution and hearing loss.
British Journal of Audiology, 16: 45-63.
- 16 Tyler RS, Summerfield AQ, Wood EJ, Fernandes M. (1982). Psychoacoustic and
phonetic temporal processing in normal and hearing-impaired listeners. **Journal
of the Acoustical Society of America, 72:** 740-752.
- 17 Tyler RS, Conrad-Armes D. (1982). Spontaneous acoustic cochlear emissions
and sensorineural tinnitus. **British Journal of Audiology, 16:** 193-194.
- 18 Tyler RS, Baker LJ. (1983). Difficulties experienced by tinnitus sufferers. **Journal
of Speech and Hearing Disorders, 48:** 150-154.
- 19 Tyler RS, Conrad-Armes D. (1983). The determination of tinnitus loudness
considering the effects of recruitment. **Journal of Speech and Hearing
Research, 26:** 59-72.
- 20 Hall JW, Tyler RS, Fernandes MA. (1983). Monaural and binaural frequency
resolution measured using band-limited and notched-noise masking. **Journal of
the Acoustical Society of America, 73:** 894-898
- 21 Tyler RS, Conrad-Armes D. (1983). Tinnitus pitch: A comparison of three
measurement methods. **British Journal of Audiology, 17:** 101-107.
- 22 Tyler RS, Wood E, Fernandes M. (1983). Frequency resolution and discrimination
of constant and dynamic tones in normal and hearing-impaired listeners.

- Journal of the Acoustical Society of America**, **74**: 1190-1199.
- 23 Tyler RS, Holland SJ, Harker LA, Gantz BJ. (1983). The relationship between pure-tone thresholds and psychoacoustical tuning curves in the hearing impaired: Preliminary findings. In: R. Klinke and R. Hartmann (eds.), **Hearing-Physiological Bases and Psychophysics**, Springer-Verlag, Berlin.
- 24 Tyler RS, Baker LJ, Armstrong-Bednall G. (1983). Difficulties experienced by hearing-aid candidates and hearing-aid users. **British Journal of Audiology**, **17**: 191-201.
- 25 Tyler RS, Smith P. (1983). Sentence identification in noise and hearing-handicap questionnaires. **Scandinavian Audiology**, **12**: 285-292.
- 26 Hall JW, Tyler RS, Fernandes MA. (1984). Factors influencing the masking level difference in cochlear hearing-impaired and normal listeners. **Journal of Speech and Hearing Research**, **27**: 145-154.
- 27 Kavanagh KT, Harker LA, Tyler RS. (1984). Auditory brainstem and middle latency responses. I. Effects of response filtering and waveform identification. **Annals Otology, Rhinology, and Laryngology**, **93**, Supplement 108.
- 28 Kavanagh KT, Harker LA, Tyler RS. (1984). Auditory brainstem and middle latency responses. II. Threshold responses to a 500-Hz tone pip. **Annals Otology, Rhinology, and Laryngology**, **93**, Supplement 108.
- 29 Tyler RS, Conrad-Arnes D. (1984). Masking of tinnitus compared to masking of pure tones. **Journal of Speech and Hearing Research**, **27**: 106-111.
- 30 Tyler RS, Conrad-Arnes D, Smith PA. (1984). Postmasking effects of sensorineural tinnitus: A preliminary investigation. **Journal of Speech and Hearing Research**, **27**: 466-474.
- 31 Tyler RS, Lowder MW, Otto SR, Preece JP, Gantz BJ, McCabe BF. (1984). Initial Iowa results with the multichannel cochlear implant from Melbourne. **Journal of Speech and Hearing Research**, **27**: 596-604.
- 32 Tyler RS, Hall JW, Moore BCJ, Glasberg B, Patterson RD. (1984). Auditory filter asymmetry in the hearing impaired. **Journal of the Acoustical Society of America**, **76**: 1363-1368.
- 33 Tyler RS, Gantz BJ, McCabe BF, Preece JP, Lowder MW, Otto SR. (1985). Audiological results with two single-channel cochlear implants. **Annals of Otology, Rhinology, and Laryngology**, **94**(2): 133-139.
- 34 Gantz BJ, Tyler RS, Preece JP, Lowder MW, Otto SR. (1985). Iowa cochlear implant clinical project: Results with two single-channel cochlear implants and one multi-channel cochlear implant. **Laryngoscope**, **95**: 443-449.
- 35 Summerfield Q, Foster J, Tyler R, Bailey PJ. (1985). Influences of formant bandwidth and auditory frequency selectivity on identification of place of articulation in stop consonants. **Speech Communication**, **4**: 213-229.
- 36 Gantz BJ, Tyler RS, McCabe BF, Preece JP, Lowder MW, Otto SR. (1985). Initial results with two single-channel cochlear implants. In: R.A. Schindler and M. Merzenich (eds.), **Cochlear Implants**, Proceedings of the Tenth Anniversary Conference on Cochlear Implants: An International Symposium. New York: Raven Press.
- 37 Tyler RS, Preece JP, Lansing CR, Otto SR, Gantz BJ. (1986). Previous experience as a confounding factor in comparing cochlear-implant processing schemes, **Journal of Speech and Hearing Research**, **29**: 282-287.
- 38 Hopkinson NT, McFarland WH, Owens E, Reed C, Shallop J, Tillman T, Tyler RS, Williams PS. (1986). Report of the ad hoc committee on cochlear implants. **ASHA**, **28**(4): 29-52.
- 39 Tyler RS, Tye-Murray, N. (1986). Frequency resolution measured by adaptively

- varying the notch width: Results from normals and hearing impaired, Chapter in: B.C.J. Moore and R.D. Patterson (eds.), **Auditory Frequency Selectivity**, New York: Plenum Press, pp. 323-330. Proceedings of a NATO Advanced Research Workshop on Auditory Frequency Selectivity, June 23-27, 1986, Cambridge.
- 40 Bentler RA, Tyler RS. (1987). Tinnitus management. **ASHA**, May: 27-32.
- 41 Tyler RS, Davis J, Lansing CR. (1987). Cochlear implants in young children. **Asha**, **29**(4): 41-49.
- 42 Lusk RP, Tyler RS. (1987). Hazardous sound levels produced by extracorporeal shock wave lithotripsy. **Journal of Urology**, **137**: 1113-1114.
- 43 LaMarte FP, Tyler RS. (1987). Noise-induced tinnitus. **Journal of the American Association of Occupational Health Nursing**, **35**(9): 403-406.
- 44 Tyler RS. (1988). The auditory representation of vowels as inferred from psychoacoustical masking patterns. **Journal of Phonetics**, **16**: 125-137.
- 45 Tyler RS, Iler-Kirk K, Tye-Murray N. (1988). Simultaneous and forward masking patterns of a formant transition. In: H. Duifhuis, J.W. Horst, and H.P. Wit (eds.), **Basic Issues in Hearing - The 8th International Symposium on Hearing**, Academic Press, London, pp. 440-447. Proceedings of the 8th International Symposium on Hearing, Groningen, The Netherlands.
- 46 Gantz BJ, McCabe BF, Tyler RS. (1988). Use of multichannel cochlear implants in obstructed and obliterated cochleas. **Otolaryngology--Head and Neck Surgery**, **98**: 72-81.
- 47 Tye-Murray N, Tyler RS. (1988). A critique of continuous discourse tracking as a test procedure. **Journal of Speech and Hearing Disorders**, **53**: 226-231.
- 48 Tyler RS. (1988). Open-set word recognition with the Duren/Cologne extracochlear implant. **Laryngoscope**, **98**(9), 999-1002.
- 49 Gantz BJ, Tyler RS, Knutson JF, Woodworth G, Abbas P, McCabe BF, Hinrichs J, Tye-Murray N, Lansing C, Kuk F, Brown C. (1988). Evaluation of five different cochlear implant designs: Audiologic assessment and predictors of performance. **Laryngoscope**, **98**(10): 1100-1106.
- 50 Tyler RS. (1988). Open-set word recognition with the 3M/Vienna single-channel cochlear implant. **Archives of Otolaryngology--Head and Neck Surgery**, **114**, 1123-1126.
- 51 Kuk FK, Tyler RS, Rustad N, Harker LA, Tye-Murray N. (1989). Alternating current at the eardrum for tinnitus reduction. **Journal of Speech and Hearing Research**, **32**, 393-400.
- 52 Tye-Murray, N., Lowder, M., and Tyler, R.S. (1990). Comparison of the F0F2 and F0F1F2 processing strategies for the Cochlear Corporation cochlear implant. **Ear and Hearing**, **11**(3), 195-200
- 53 Preece JP, Tyler RS. (1989). Temporal-gap detection by cochlear prosthesis users. **Journal of Speech and Hearing Research**, **32**: 849-856.
- 54 Tye-Murray N, Tyler RS. (1989). Auditory consonant and word recognition skills of cochlear implant users. **Ear and Hearing**, **10**(5), 292-298.
- 55 Tye-Murray N, Tyler RS, Bong B, Nares T. (1989). Computerized laser videodisc programs for training speechreading and assertive communication behaviors. **Journal of the Academy of Rehabilitative Audiology**, **21**, 143-152.
- 56 Tyler RS, Tye-Murray N, Moore BCJ, McCabe BF. (1989). Synthetic two-formant vowel perception by some of the better cochlear-implant patients. **Audiology**, **28**: 301-315.
- 57 Tyler RS, Kuk FK. (1989). The effects of 'noise suppression' hearing aids on consonant recognition in speech-babble and low-frequency noise. **Ear and Hearing**, **10**(4), 243-249.

- 58 Tyler RS, Lowder MW. (1992). Audiological management and performance of adult cochlear-implant patients. **Ear, Nose, and Throat Journal**, **71**(3), 117-128.
- 59 Kuk FK, Tylet RS. (1990). Relationship between consonant recognition and subjective ratings of hearing aids. **British Journal of Audiology**, **24**: 171-177.
- 60 Tyler RS, Moore BCJ, Kuk FK. (1989). Performance of some of the better cochlear-implant patients. **Journal of Speech and Hearing Research**, **32**: 887-911.
- 61 Tyler RS, He N. (1990). Audiology in China. **Asha**, **32** (May): 40-42, 95.
- 62 Tyler RS, Tye-Murray N, Otto SR. (1989). The recognition of vowels differing by a single formant by cochlear-implant subjects. **Journal of the Acoustical Society of America**, **86**(6): 2107-2112.
- 63 Tyler RS. (1990). What should be implemented in future implants? **Acta Otolaryngologica (Stockholm) Supplement.**, Proceedings of the International Workshop on Hearing Impairment and Signal-Processing Hearing Aids, Wolfheze, The Netherlands, August 1988.
- 64 Tyler RS, Kuk FK. (1990). Consonant recognition and quality judgments of noise-reduction hearing aids. **Acta Otolaryngologica (Stockholm) (Supplement)**, (pp. 224-229), Proceedings of the International Workshop on Hearing Impairment and Signal-Processing Hearing Aids, Wolfheze, The Netherlands, August 1988.
- 65 Stouffer JL, Tyler RS. (1990). Characterization of tinnitus by tinnitus patients. **Journal of Speech and Hearing Disorders**, **55**: 439-453.
- 66 Tyler RS, Kelsay D. (1990). Advantages and disadvantages perceived by some of the better cochlear-implant patients. **American Journal of Otology**, **11**(4): 282-289.
- 67 Tyler RS. (1990). Speech perception with the Nucleus cochlear implant in children trained with the auditory/verbal approach. **American Journal of Otology**, **11**(2): 99-107.
- 68 Tye-Murray N, Tyler RS, Lansing C, Bertschy M. (1990). Evaluating the effectiveness of auditory training stimuli using a computerized program. **Volta Review**, **92**(1): 25-30.
- 69 Tyler RS, Stouffer JL, Schum R. (1989). Audiological rehabilitation of the tinnitus client. **Journal of the Academy of Rehabilitative Audiology**, **22**: 30-42.
- 70 Tye-Murray N, Purdy SC, Woodworth GG, Tyler RS. (1990). Effects of repair strategies on visual identification of sentences. **Journal of Speech and Hearing Disorders**, **55**: 621-627.
- 71 Kuk FK, Tyler RS, Gantz BJ, Bertschy M. (1990). Intensity operating range measures as predictors of word-recognition ability in cochlear implant subjects. **Scandinavian Audiology**, **19**: 139-145.
- 72 Kuk FK, Tyler RS, Russell D, Jordan H. (1990). The psychometric properties of a tinnitus handicap questionnaire. **Ear and Hearing**, **11**(6): 434-442.
- 73 Kuk FK, Tyler RS, Gantz BJ, Bertschy M. (1990). Relationships Among Loudness Indexes in Cochlear-Implant Patients. **Archives of Otolaryngology--Head and Neck Surgery**, **116**, 1320-1324.
- 74 Kuk FK, Tyler RS, Mims L. (1990). Subjective Ratings of Noise-reduction Hearing Aids. **Scandinavian Audiology**, **19**: 237-244.
- 75 Tyler RS. (1991). What can we learn about hearing aids from Cochlear Implants? **Ear and Hearing**, **12**(6), 177-186.
- 76 Stouffer JL, Tyler RS, Kileny P, Dalzell L. (1991). Tinnitus as a function of duration and etiology: Counseling implications. **American Journal of Otology**, **12**(3), 188-194.

- 77 Murai K, Tyler RS, Harker LA, Stouffer JL. (1992). Review of Pharmacologic treatment of tinnitus. **American Journal of Otology**, **13**(5), 454-464.
- 78 Watson CS, Dobie RA, Durlach N, Humes LE, Levitt H, Miller JD, Sherrick CE, Simmons FB, Studebaker GA, Tyler RS, Widin GP. (1991). Speech-perception aids for hearing-impaired people: Current Status and needed research. CHABA Committee report. **Journal of the Acoustical Society America**, **90**(2): 637-685.
- 79 Knutson JF, Hinrichs JV, Tyler RS, Gantz BJ, Schartz HA, Woodworth G. (1991). Psychological predictors of audiological outcomes of multichannel cochlear implants: preliminary findings. **Annals of Otology, Rhinology, and Laryngology**, **100**(10): 817-822.
- 80 Knutson JF, Schartz HA, Gantz BJ, Tyler RS, Hinrichs JV, Woodworth G. (1992). Psychological change following 18-months of cochlear implant use. **Annals of Otology, Rhinology, and Laryngology**, **100**(10): 877-882.
- 81 Tyler RS, Preece JP, Lansing CR, Gantz BJ. (1992). Natural Vowel perception by patients with the Ineraid cochlear-implant. **Audiology**, **31**: 228-239.
- 82 Fryauf-Bertschy H, Tyler RS, Kelsay D, Gantz BJ. (1992). Performance over time of congenitally deaf and postlingually deafened children using a multi-channel cochlear implant. **Journal of Speech and Hearing Research**, **35**, 913-920.
- 83 Tyler RS, Opie JM, Fryauf-Bertschy H, Gantz BJ. (1992). Future directions in cochlear implants. **Journal of Speech-Language-Pathology and Audiology**, **16**(2), 151-164.
- 84 Tye-Murray N, Tyler RS, Woodworth GG, Gantz BJ. (1992). Performance over time with a Nucleus or Ineraid cochlear implant. **Ear and Hearing**, **13**(3), 200-209.
- 85 Tyler RS, Moore BCJ. (1992). Consonant recognition in some of the better cochlear-implant patients. **Journal of the Acoustical Society of America**, **92**(6), 3068-3077.
- 86 Tyler RS, Aran JM, Dauman R. (1992). Recent advances in tinnitus. **American Journal of Audiology**, **1**(4), 36-44.
- 87 Tyler RS. (1993). Cochlear implants and the deaf culture. **American Journal of Audiology**, **2**(1), 26-32.
- 88 Dauman R, Tyler RS, Aran JM. (1993). Intracochlear electrical tinnitus reduction. **Acta Otolaryngologica (Stockholm)**, **113**, 291-295.
- 89 Tyler RS. (1994). Advantages and disadvantages expected and reported by cochlear-implant patients. **The American Journal of Audiology**, **15**(4), 523-531.
- 90 Gantz BJ, Woodworth GG, Abbas PJ, Knutson JF, Tyler RS. (1993). Multivariate predictors of audiological success with multichannel cochlear implants. **Annals of Otology Rhinology, and Laryngology**, **102**(12), 909-916.
- 91 Gantz BJ, Tyler RS, Woodworth G, Tye-Murray N, Fryauf-Bertschy H. (1994). Results of multichannel cochlear implants in congenital and acquired prelingually deafened children: Five year Follow-up. **The American J of Otology**, **15**(2), 1-7.
- 92 Brown CB, Abbas PJ, Bertschy M, Tyler RS, Lowder M, Takahashi G, Purdy S, Gantz BJ. (1995). Longitudinal assessment of Physiological and psychophysical measures in cochlear implant users. **Ear and Hearing**, **16**, 5, 439-449.
- 93 Tyler RS. (1995). Tinnitus in the profoundly hearing-impaired and the effects of cochlear implants. : Multicenter comparative study of cochlear implants: Final reports of the Department of Veterans Affairs cooperative studies program, N.L. Cohen & S.B. Waltzman (eds.), **Annals of Otology, Rhinology, and Laryngology**, **104**, 4/2, 25-30.

- 94 Maillet CJ, Tyler RS, Jordan HN. (1995). Change in the quality of life of adult cochlear implant patients. Multicenter comparative study of cochlear implants: Final reports of the Department of Veterans Affairs cooperative studies program. In: N.L. Cohen & S.B. Waltzman (eds.), **Annals of Otolaryngology, Rhinology, and Laryngology**, **104**, 4/2, 31-48.
- 95 Gantz BJ, Tyler RS, Woodworth G. (1995). Preliminary results with the Clarion cochlear implant in postlingually deafened adults. **Annals Otolaryngology, Rhinology, and Laryngology**, **104**(9) part 2:268-269.
- 96 Tyler RS, Lowder MW, Parkinson AJ, Woodworth GG, Gantz BJ. (1995). Performance of adult Ineraid and Nucleus cochlear implant patients after 3.5 years of use. **Audiology**, **34**, 135-144.
- 97 Kim JW, Tyler RS. (1995). An introduction to neural networks for hearing aid noise recognition. **American Journal of Audiology**, **4**, 20-31.
- 98 Tyler RS, Summerfield AQ. (1996). Cochlear implantation: Relationships with research on auditory deprivation and acclimatization. **Ear and Hearing**, **17**, 3, 38S-50S.
- 99 Parkinson AJ, Tyler RS, Woodworth GG, Lowder MS, Gantz BJ. (1996). A within-subject comparison of adult patients using the Nucleus F0F1F2 and F0F1F2B3B4B5 speech processing strategies. **Journal of Speech and Hearing Research**, **39**, 261-277.
- 100 Tyler RS, Gantz BJ, Woodworth GG, Parkinson AJ, Lowder MW, Schum LK. (1996). Initial independent results with the Clarion cochlear implant. **Ear and Hearing**, **17**(6), 528-536.
- 101 Kelsay DMR, Tyler RS. (1996). Advantages and disadvantages expected and realized by pediatric cochlear implants recipients as reported by their parents. **American Journal of Otolaryngology**, **17**, 866-873.
- 102 Knutson JF, Murray KT, Husarek S, Westerhouse K, Woodworth G, Gantz BJ, Tyler RS. (1998). Psychological change following 54 months of cochlear implant use. **Ear and Hearing**, **19**: 191-201.
- 103 Tyler RS, Parkinson AJ, Woodworth GG, Lowder MW, Gantz BJ. (1997). Performance over time of adult patients using the Ineraid and Nucleus cochlear implants. **Journal of the Acoustical Society of America**, **102**: 508-522.
- 104 Tyler RS, Gantz BJ, Woodworth GG, Fryauf-Bertschy H, Kelsay DMR. (1997). Performance of two and three-year old children and predicting four-year from one-year performance. **American Journal of Otolaryngology**, **18** (suppl): S157-S159.
- 105 Fryauf-Bertschy H, Tyler RS, Kelsay DMR, Gantz BJ, Woodworth GG. (1997). Implant use by prelingually deafened children: The influences of age at implant and length of device use. **Journal of Speech, Language, and Hearing Research**, **40**: 183-199.
- 106 Tyler RS, Fryauf-Bertschy H, Kelsay DMR, Gantz BJ, Woodworth GG, Parkinson A. (1997). Speech Perception by Prelingually Deaf Children using Cochlear Implants. **Otolaryngology-Head and Neck Surgery**, **117**: 3, 180-187.
- 107 Tyler RS. (1997). Perspectives on tinnitus. **British Journal of Audiology**, **31**, 381-386.
- 108 Tyler RS, Parkinson AJ, Fryauf-Bertschy H, Lowder MW, Parkinson WS, Gantz BJ, Kelsay DMR. (1997). Speech perception by prelingually deaf children and postlingually deaf adults with cochlear implant. **Scandinavian Audiology**, **26**:46, 65-71.
- 109 Rubinstein JT, Parkinson WS, Tyler RS, Gantz BJ. Residual Speech Recognition and Cochlear Implant Performance: Effects of Implantation Criteria. **American Journal of Otolaryngology**, **20** (3)445-452, 1999.

- 110 Rubinstein JT, Parkinson WS, Lowder MW, Gantz BJ, Nadol JB, Tyler RS. (1998). Single-Channel to Multichannel conversions in Adult Cochlear Implant Subjects. **American Journal of Otology**, 19: 461-466.
- 111 Gantz BJ, Rubinstein J, Tyler RS, Teagle H, Cohen N, Waltzman S, Miyamoto R, Kirk K, Long. (2000) Term Results of Cochlear Implants in Children with Residual Hearing. **Annals of Otology, Rhinology, & Laryngology**, 109 (12), 33-36.
- 112 Tyler RS, Teagle H, Kelsay D, Gantz BJ, Woodworth G, Parkinson A. (2000). Speech Perception by Prelingually Deaf Children after Six Years of Cochlear Implant Use: Effects of Age at Implantation. **Annals of Otology, Rhinology, & Laryngology**, 109 (12) 82-84
- 113 Parkinson AJ, El-Kholy W, Tyler RS. (1998). Vowel Perception in Prelingually Deafened Children with Multichannel Cochlear Implants. **Journal of American Academy of Audiology**, 9, 179-190.
- 114 Tomblin JB, Spencer L, Flock S, Tyler RS, Gantz B. (1999) A Comparison of language achievement in children with cochlear implants and children using hearing aids. **Journal of Speech Language Hearing Research**, 42, 497-511.
- 115 Tyler RS, Gfeller K, Mehr MA. (2000) Preliminary investigation Comparing One and Eight Channels at Fast and Slow Rates on Music Appraisal in Adults with Cochlear Implants. **Cochlear Implants International**, 1(2), 67-72, London.
- 116 Tyler RS, Rubinstein JT, Teagle H, Kelsay D, Gantz BJ. (2000). Prelingually Deaf Children can Perform as well as Postlingually Deaf Adults using Cochlear Implants. Cochlear Implants International, London. **Cochlear Implants International**, 1, 39-44.
- 117 Gfeller K, Christ A, Knutson JF, Witt S, Murray KT, Tyler RS. (2000). The Musical Backgrounds, Listening Habits, and Aesthetic Enjoyment of Adult Cochlear Implant Recipients. **J Am Acad Audiol** 11 (390-406).
- 118 Knutson JF, Ehlers SL, Wald RL, Tyler RS. (2000). Psychological predictors of pediatric cochlear implant use and benefit. **Annals of Otology Rhinology and Laryngology**, 109 (12), 109-111.
- 119 Knutson JF, Ehlers SL, Wald RL, Tyler RS. (2000). Psychological Predictors of Pediatric Cochlear Implant Use and Benefit. **Ann Otol Rhinol Laryngol**, 109(12):100-103.
- 120 Gantz BJ, Rubinstein JT, Tyler RS, Teagle HFB, Cohen NL, Waltzman SB, Miyamoto RT, Kirk KI. (2000). Long-Term Results of Cochlear Implants in Children with Residual Hearing. **Ann Otol Rhinol Laryngol**, 109 (supp 185) 12, Part 2:33-36.
- 121 Ad Hoc Subcommittee: Luxford WM, Allum D, Balkany T, Brimacombe J, Cohen N, Gantz B, Hodges A, Kessler D, Maltan A, Miyamoto R, Niparko J, Osberger MJ, Skinner M, Staller S, Toby E, Tyler R, Waltzman S. Committee on Hearing and Equilibrium of the American Academy of Otolaryngology–Head and Neck Surgery. Minimum Speech Test Battery for Postlingually Deafened Adult Cochlear Implant Patients. **Otolaryngology-Head and Neck Surgery**, 124(2):125-126, 2001.
- 122 Gantz BJ, Tyler RS, Rubinstein J, Wolaver A, Lowder M, Abbas P, Brown C, Hughes M, Preece JP. (2002). Binaural Cochlear Implants Placed during the Same Operation. **Otology and Neurotology**, 23 (2), 169-180.
- 123 Tyler R, Gantz B, Rubinstein J, Wilson B, Parkinson A, Wolaver A, Preece J, Will S, Lowder M. (2002) Three-month Results with Bilateral Cochlear Implants. **Ear and Hearing**, 12 (1S), 80S-89S.

- 124 Tyler R, Parkinson A, Wilson B, Witt S, Preece J, Noble W. (2002) Patients Utilizing a Hearing Aid and a Cochlear Implant: Speech Perception and Localization. **Ear and Hearing**, 23 (2), 98-105.
- 125 Rubinstein JT, Tyler RS, Johnson A, Brown CJ. (2003) Electrical suppression of tinnitus with high-rate pulse trains. **Otology and Neurotology**, 24, 478-485.
- 126 Tyler RS. (2002) Considerations When Evaluating a Tinnitus Patient for Compensation. **The Australian & New Zealand Journal of Audiology**, 24 (2), 85-91.
- 127 Van Hoesel RJM, Tyler RS. (2003) Speech perception, localization, and lateralization with bilateral cochlear implants. **Journal of the Acoustical Society of America**, 113 (3), 1617-1630.
- 128 Tyler RS, Dunn CC, Witt SA, Preece JP. (2003) Update on Bilateral Cochlear Implantation. **Current Opinion in Otolaryngology**, 11(5): 388-393.
- 129 Preece JP, Tyler RS, Noble W. (2003) The Management of Tinnitus. *Geriatrics & Aging*, 6 (6), 22-28.
- 130 Wilson BS, Lawson DT, Müller JM, Tyler RS, Kiefer J, Brill SM, Cartee LA, Cox JH, Schatzer R, Wolford RD, Schön F, Gstöttner W, Pfennigdorff T. Cochlear Implants: Some Likely Next Steps. **Annu Rev Biomed Eng**, 5: 207-249, 2003.
- 131 Gomaa NA, Rubenstein JT, Lowder MW, Tyler RS, Gantz BJ. Residual Speech Perception and Cochlear Implant Performance in Postlingually Deafened Adults. **Ear and Hearing**, 24 (6) 539-544, November 2003.
- 133 Dunn C, Tyler R, & Witt S. (2005). Benefit of wearing a hearing aid on the unimplanted ear in adult users of a cochlear implant. **Journal of Speech, Language, and Hearing Research**, 48:668-680.
- 134 Tyler RS, Witt SA, Dunn CC. (2004). Trade-Offs Between Better Hearing and Better Cosmetics. **Am J Audiology** 13:193-199.
- 135 Tyler RS, Coelho C, Noble W. (2006). Tinnitus: Standard of Care, Personality Differences, Genetic Factors. **J Otorhinolaryngology** 68(1):14-22.
- 136 Tyler RS, Noble W, Coelho, C. (2006). Considerations for the design of clinical trials for tinnitus. *Acta Oto-Laryngologica* 126:44-49
- 137 Tyler RS, Noble W, Dunn C, Witt S. (2006) Some benefits and limitations of binaural cochlear implants and our ability to measure them. *International Journal of Audiology*. 45(Supplement 1):S113-S119.
- 138 (2007) Long-term Performance of Clarion 1.0 Cochlear Implant Users. Accepted for publication in *The Laryngoscope*.
- 139 Tyler RS, Dunn CC, Witt SA, Noble WG. (2007). Speech Perception and Localization With Adults With Bilateral Sequential Cochlear Implants. **Ear and Hearing**. 28(2):86S-90S.

Non peer-reviewed papers

- 1 Tyler RS, Coles RRA, Haggard MP. Tinnitus Research and Treatment; The Role of the Institute of Hearing Research. **Tinnitus Association**. November/December 1979
- 2 Tyler RS. (1984). Does tinnitus originate from hyperactive nerve fibers in the cochlea? In: A Shulman and J. Ballantyne (eds.), **Tinnitus: Proceedings of the II International Tinnitus Seminar**, Journal of Laryngology and Otology (Supplement 9), 38-44
- 3 Tyler RS, Babin RW, Niebuhr D. (1984). Some observations on the masking and post-masking effects of tinnitus. In: A. Shulman and J. Ballantyne (eds.), **Tinnitus: Proceedings of the II International Tinnitus Seminar**, Journal of

- Laryngology and Otology (Supplement 9), 150-156.
- 4 Gantz BJ, Tyler RS, McCabe BF, Preece JP, Lowder MW, Otto SR. (1984). Initial results with single-channel and multi-channel cochlear implants. **Proceedings of the First Vienna International Workshop on Functional Electrostimulation**, Vienna, Austria.
- 5 McCabe BF, Tyler RS, Gantz BJ, Lowder MW, Otto SR, Preece JP. (1984). Preliminary assessment of the Los Angeles, Vienna and Melbourne cochlear implants. Proceedings of the Second International Symposium on Cochlear Implants, Paris, **Acta Otolaryngologica (Stockholm)**. Supplement **411**: 247-253.
- 6 Tyler RS. (1985). Hearing-aid difficulties as perceived by their users. **Audiology in Practice**, **2**(1): 1-3.
- 7 Tyler RS. (1985). Psychoacoustical measurement of tinnitus for treatment evaluations. In: E. Myers (ed.), **New Dimensions in Otorhinolaryngology-Head and Neck Surgery**, Vol. 1. Proceedings of the Thirteenth World Congress of Otorhinolaryngology. Amsterdam: Elsevier Publishing Co.
- 8 Gantz BJ, Tyler RS. (1985). Cochlear implant comparisons. **American Journal of Otology**, **6** (Supplement), November, 92-98.
- 9 Tyler RS. (1986). Adjusting a hearing aid to amplify speech to the MCL. **The Hearing Journal**, **39**(8): 24-27.
- 10 Tyler RS, Gantz BJ, Preece JP, Lansing CR, Lowder MW, Otto SR, McCabe BF. (1986). Cochlear implant program at the University of Iowa. In: M.J. Collins, T.J. Gattke, and L.A. Harker (eds.), **Sensorineural Hearing Loss**, Proceedings of the Scott Reger Conference. Iowa City: The University of Iowa.
- 11 Tyler RS, Tye-Murray N. (1986). The relationship between speech perception and psychoacoustical measurements in noise-induced hearing loss subjects. In: R. Salvi, D. Henderson, R.P. Hamernik and V. Colletti (eds.), **Basic and Applied Aspects of Noise-Induced Hearing Loss**, Proceedings of the NATO Symposium on Noise Induced Hearing Loss. Il Ciocco, Italy. New York: Plenum Publishing Corp.
- 12 Tyler RS, Berliner K, Demorest M, Hirshorn M, Luxford W, Mangham C. (1986). Clinical objectives and research-design issues for cochlear implants in children. **Seminars in Hearing**, **7**(4), 433-440.
- 13 Tyler RS, Tye-Murray N, Preece JP, Gantz BJ, McCabe BF. (1987). Vowel and consonant confusions among cochlear implant patients: Do different implants make a difference? Proc. of the International Cochlear Implant Symposium and Workshop. Melbourne, **Annals of Otology, Rhinology, and Laryngology** (Supplement 128): **96**(1), 141-144.
- 14 Tyler RS. (1987). Evaluation of different cochlear implants. **Audiology in Practice**, **3**(1).
- 15 McCabe BF, Tyler RS. (1987). An international test battery for cochlear implant patients. **Acta Otolaryngologica (Stockholm)**, **103**: 637-639.
- 16 Tyler RS, Tye-Murray N, Gantz BJ. (1988). The relationship between vowel, consonant and word perception in cochlear-implant patients. Chapter in: P. Banfei (ed.), **Cochlear Implant: Current Situation**, Duren, West Germany, pp. 627-632. Proceedings of the International Cochlear Implant Symposium, Cologne, West Germany, 1987.
- 17 Tye-Murray N, Gantz BJ, Kuk FK, Tyler RS. (1988). Word recognition performance of patients using three different cochlear implant designs. Chapter in: P. Banfei (ed.), **Cochlear Implant: Current Situation**, Duren, West

- Germany, pp. 605-612. Proceedings of the International Cochlear Implant Symposium, Cologne, West Germany, 1987.
- 18 Tyler RS, Kuk FK, Mims LA. (1987). Ipsilateral and contralateral postmasking recovery of tinnitus. **Proceedings of the III International Tinnitus Seminar**, Muenster, West Germany. H. Feldmann (Ed.). Karlsruhe, West Germany: Harsch Verlag.
- 19 Harker LA, Tyler RS, Fredell PA, Kuk FK, Sellers JA, Fox TL, Tye-Murray N. (1987). Evaluation of flecainide acetate (Tambocor)^R as a treatment for tinnitus. **Proceedings of the III International Tinnitus Seminar**, Muenster, West Germany. H. Feldmann (Ed.). Karlsruhe, West Germany: Harsch Verlag. pp. 322-325.
- 20 Gantz BJ, McCabe BF, Tyler RS, Preece JP. (1987). Evaluation of four cochlear implant designs. Proceedings of the International Cochlear Implant Symposium and Workshop. Melbourne, **Annals of Otology, Rhinology, and Laryngology** (Supplement) **128**: 96(1), 145-147.
- 21 Tyler RS. (1988). Signal processing techniques to reduce the effects of impaired frequency resolution. **The Hearing Journal**, **41**(9), 34-47.
- 22 Stouffer JL, Tyler RS. (1990). Subjective tinnitus loudness. **Hear Inst**, **41**(2): 17-19.
- 23 Kuk FK, Tyler RS, Stubbing PW, Bertschy MR. (1989). Noise reduction circuitry in ITE instruments. **Hear Inst**, **40**(7), 20.
- 24 Tyler RS, Stouffer JL. (1989). A review of tinnitus loudness. **The Hearing Journal**, **42**(11), 52-57
- 25 Tyler RS. (1992). The psychophysical measurement of tinnitus. In: JM Aran & R Dauman (Eds.), **Proceedings of the Fourth International Tinnitus Seminar** (pp. 17-26). Bordeaux, France. The Netherlands: Kugler & Ghedini Publications.
- 26 Tyler RS. (1992). Evaluation of tinnitus treatments. In: JM Aran & R Dauman (Eds.), **Proceedings of the Fourth International Tinnitus Seminar** (pp. 551-554). Bordeaux, France. The Netherlands: Kugler & Ghedini Publications.
- 27 Tyler RS, Stouffer JL. (1992). Binaural tinnitus masking with a noise centered on the tinnitus. In J-M. Aran & R. Dauman (eds.), **Proceedings of the Fourth International Tinnitus Seminar** (pp. 391-394). Bordeaux, France. The Netherlands: Kugler & Ghedini Publications.
- 28 Stouffer JL, Tyler RS, Booth JC, Buckrell B. (1992). Tinnitus in normal-hearing and hearing-impaired children. In: J-M. Aran & R. Dauman (eds.), **Proceedings of the Fourth International Tinnitus Seminar** (pp.255-258). Bordeaux, France. Amsterdam/New York: Kugler Publications.
- 29 Stouffer JL, Tyler RS. (1992). Ratings of psychological changes pre- and post-tinnitus onset. In: J-M. Aran & R. Dauman (eds.), **Proceedings of the Fourth International Tinnitus Seminar** (pp. 449-452). Bordeaux, France. Amsterdam/New York: Kugler Publications.
- 30 Dauman R, Tyler RS. (1993). Tinnitus suppression in cochlear implant users. In: B. Fraysse & O. Deguine (eds.). **Cochlear Implants: New Perspectives**. (pp. 168-173). Advances in Oto-Rhino-Laryngology, Basel: Karger.
- 31 Dauman R, Tyler RS. (1992). Some considerations on the classification of tinnitus. In: J-M. Aran & R. Dauman (eds.), **Proceedings of the Fourth International Tinnitus Seminar** (pp. 225-229). Bordeaux, France. The Netherlands: Kugler & Ghedini Publications.
- 32 Gantz BJ, Woodworth GG, Knutson JF, Abbas PJ, Tyler RS. (1993). Multivariate predictors of success with cochlear implants. **Advances in Oto-Rhino-**

- Laryngology**, **48**, 153-167.
- 33 Tyler RS, Champe G. (1993). An audiovisual feature test for young deaf children in English, French, Spanish and German. **Advances in Oto-Rhino-Laryngology**, **48**, 203-206.
- 34 Gantz BJ, Tyler RS, Tye-Murray N, Fryauf-Bertschy H. Long term results of multichannel cochlear implants in congenitally deaf children. In: I.J. Hochmair-Desoyer & E.S. Hochmair (eds.), **Advances in Cochlear Implants** (pp 527-533). Manz, Wien.
- 35 Tyler RS, Lowder M, Woodworth G, Gantz BJ, Parkinson AJ. (1994). A within-subject comparison of adult patients using the Nucleus F0F1F2 and F0F1F2B3BB4B5 speech processing strategies. In: I.J. Hochmair-Desoyer & E.S. Hochmair (eds.), **Advances in Cochlear Implants** (pp 131-135). Manz, Wien.
- 36 Knutson JF, Hinrichs JV, Gantz BJ, Tyler RS. (1996). Psychological variables and cochlear implant success: Implications for adolescent recipients. In P. M. Sullivan and P. E. Brookhouser (Eds.) **Deaf Adolescents: Puzzles, problems, & promises. Proceedings of the Fourth National Conference on the Habilitation and Rehabilitation of hearing impaired adolescents**. Omaha, NE: Boys Town Press. 47-67
- 37 Tyler RS. (1996). Tinnitus treatments modify behavior. **Hearing Instruments**, March, 20-24.
- 38 Tyler RS, Fryauf-Bertschy H, Gantz BJ, Kelsay DMR, Woodworth GG. (1997). Speech perception in prelingually implanted children after four years. In I. Honjo & H. Takahashi (eds.), **Cochlear Implant and Related Sciences Update. Add Otorhinolaryngology**. Basel, Karger, vol **52**, 187-192.
- 39 Tyler RS, Gantz BJ, Parkinson AJ, Woodworth GG, Lowder MW, Parkinson WS. (1997). Initial comparison between the Clarion, Nucleus and Ineraid Cochlear Implants. In I. Hondo & H. Takahashi (eds.), **Cochlear Implant and Related Sciences Update. Add Otorhinolaryngology**. Basel, Karger, vol **52**, 274-278.
- 40 Tyler RS. (1997). Speech perception by prelingually deaf children with cochlear implants and a French audiovisual feature test. **Bulletin d-Audiophonologie - Ann. Sc. Univ. Fr.C. ACFOS**, 123-134.
- 41 Tyler RS. (1997). Tinnitus: Current theories and treatments. **The Hearing Journal**, 50: 8, 10-19.
- 42 Tyler RS. (1999) The Use of Science to Find Successful Tinnitus Treatments. **Proceedings of the Sixth International Tinnitus Seminar**, The Tinnitus-Hyperacusis Center, London, UK.
- 43 Tyler RS, Tomblin JB, Spencer LJ, Kelsay DMR, Fryauf-Bertschy H. (2000). How Speech Perception through a Cochlear Implant Affects Language and Education. In Waltzman, S.B & Cohen, N.L. (Eds.) **Cochlear Implants, 14E**, pp. 291-292. New York: Thieme Medical Publishers, Inc.
- 44 Luxford W, Allum D, Balkany T, Brimacombe J, Cohen N, Gantz B, Hodges A, Kessler D, Maltan A, Miyamoto R, Niparko J, Osberger M, Skinner M, Staller S, Toby E, Tyler RS, Waltzman S. (2001). Minimum Speech Test Battery for Postlingually Deafened Adult Cochlear Implant Patients. **Otolaryngology-Head and Neck Surgery**, 124 (2), 125-126.
- 45 Tyler RS, Kelsay DMR, Teagle HFB, Rubinstein JT, Gantz BJ, Christ AM. (2000). Seven-Year Speech Perception Results and the Effects of Age, Residual Hearing, and Preimplantation Speech Perception in Prelingually Deaf Children Using the Nucleus and Clarion Cochlear Implants. In Kim, C.S., Chang, S.O., and Lim, D. (Eds.) **Updates in Cochlear Implantation. Advances in Oto-Rhino-**

- Larynx**, 57, 305-310. Basel, Switzerland: Karger AG Publications.
- 46 Tyler RS, Parkinson AJ, Wilson B, Parkinson W, Lowder M, Witt S, Rubinstein J, Gantz B. (2000). Evaluation of Different Choices of n in an n -of- m Processor for Cochlear Implants. In Kim, C.S., Chang, S. O., and Lim, D. (Eds). Updates in Cochlear Implantation. **Advances in Oto-Rhino-Larynx**, 57, 311-315.
- 47 Knutson JF, Wald RL, Ehlers SL, Tyler RS. (2000). Psychological Consequences of Pediatric Cochlear Implant Use. **Annals of Otology, Rhinology, & Laryngology**, 109 (12), 109-111.
- 48 Tyler RS, Haskell G, Preece J, Bergan C. (2001). Nurturing patient expectations to enhance the treatment of tinnitus. **Seminars in Hearing** 22 (1),
- 49 Tyler RS, Preece JP, Wilson BS, Rubinstein JT, Parkinson AJ, Wolaver AA, Gantz BJ. (2002) Distance, Localization and Speech Perception Pilot Studies with Bilateral Cochlear Implants. In T. Kubo, Y. Takahashi, and T. Ivaki (Eds.) **Cochlear implants – An Update**. The Hague: Kugler Publications, 517-522.
- 50 Tyler RS, Bergan CJ. (2001) Tinnitus Retraining Therapy: A modified approach. **The Hearing Journal**, 54 (11), 36-42
- 51 Tyler RS, Cacace AT. (2004). Advances in Understanding and Treating Tinnitus. *Tinnitus Today*, 29(1) 8-13.
- 52 Noble W, Tyler RS, Dunn C, Witt S. (2005). Binaural Hearing Has Advantages for Cochlear Implant Users Also. **The Hearing Journal** 58(11):56-64.

Books

- 1 Tyler RS. (ed.). (1993). **Cochlear Implants: Audiological Foundations**. San Diego: Singular Publications.
- 2 Tyler RS, Schum DJ. (eds.) (1995). **Assistive Devices for Persons with Hearing Impairment**. Needham Heights, MA: Allyn & Bacon.
- 3 Tyler RS. (ed). (2000). **Tinnitus Handbook**. San Diego: Singular Publications.
- 4 Tyler R, Preece J, Wilson B, Rubinstein J, Parkinson A, Wolaver A, Gantz B. (2002). Proceedings of the Asian Conference on Cochlear Implants. Distance, Localization and Speech Perception Pilot Studies with Bilateral Cochlear Implants. In T Kubo, Y Takahashi, T Iwaki (Eds) **Cochlear Implants – An Update**. The Hague: Kugler Publications, 517-522.
- 5 Tyler RS. (2006). **Tinnitus Treatment: Clinical Protocols**. New York: Thieme.
6. Humes LE, Berger EH, Bohne BA, Cacace AT, Cruickshanks KJ, Danielson RW, Dubno JR, Gates GA, Henderson D, Mills JH, Stephenson MR, Tyler RS, Wallace RB. (2006). **Noise and Military Service**. Washington, D.C.: The National Academies Press.

Chapters

- 1 Tyler RS. (1982). Minicomputers and the assessment of hearing loss and tinnitus. In: J. Raviv (ed.), **Uses of computers in aiding the disabled**, North-Holland, Amsterdam.
- 2 Tyler RS. (1986). Frequency resolution in hearing-impaired listeners. In B.C.J. Moore (ed.), **Frequency Selectivity in Hearing** (pp. 309-371) London: Academic Press.
- 3 Tyler RS, Babin RW. (1986). Tinnitus. In: C.W. Cummings, J.M. Fredrickson, L. Harker, C.J. Krause and D.E. Schuller (Eds.), Vol. 4, Chapter 172, 3201-3217,:

- Otolaryngology - Head and Neck Surgery**, St. Louis: C.V. Mosby Co.
- 4 Tyler RS, Bentler RA. (1987). Tinnitus maskers and hearing aids for tinnitus. Chapter in: R. Sweetow (ed.), **Seminars in Hearing**, 8(1): 49-61. Thieme Medical Publishers, New York.
 - 5 Tyler RS, Tye-Murray N, Lansing CR. (1988). Electrical stimulation as an aid to speechreading. In: C.L. De Filippo and D.G. Sims (eds.), **New Reflections on Speechreading**, Alexander Graham Bell Association for the Deaf, Washington, D.C. **Volta Review**, 90(5), 119-148.
 - 6 Tyler RS, Tye-Murray N. (1991). Cochlear implant signal-processing strategies and patient perception of speech and environmental sounds. Chapter in: H. Cooper (ed.), **Practical Aspects of Cochlear Implants**. London: Pergamon Press, pp. 58-83.
 - 7 Tyler RS, Tye-Murray N, Gantz BJ. (1991). Aural rehabilitation. In: J.D. Osguthorpe and W. Melnick (eds.), **Otolaryngologic Clinics of North America**. 24(2), 429-445. Philadelphia: W.B. Saunders Co.
 - 8 Tyler RS. (1990). Cochlear Implants for young deaf children. In: M. Haggard and M. Page (eds.), **Current Approaches: Cochlear Implants**, London: Duphar Laboratories Ltd., 66-71.
 - 9 Tyler RS. (1990). The performance of postlinguistically deafened adults with cochlear implants. In: M. Haggard and M. Page (eds.), **Current Approaches: Cochlear Implants**, London: Duphar Laboratories Ltd., 13-28.
 - 10 Tyler RS, Babin RW. (1993). Tinnitus, Vol. 4, Chapter 173, (pp. 3031-3053). In: C.W. Cummings, J.M. Frederickson, L. Harker, C.J. Krause and D.E. Schuller (eds), **Otolaryngology--Head and Neck Surgery, 2nd Edition**. St. Louis: C.V. Mosby Co.
 - 11 Tyler RS, Fryauf-Bertschy H. (1992). Hearing Abilities of Children with Cochlear Implants. Chapter 3, 41-59, in: N. Tye-Murray (ed.), **Cochlear Implants and Children: A Handbook for Parents, Teachers and Speech & Hearing Professionals**, Washington, DC: A.G. Bell Publications.
 - 12 Preece J, Tyler RS. (1992). Consonant confusions by users of three cochlear implant devices. **Seminars in Hearing**, 13(3), 226-238.
 - 13 Tyler RS. (1993). Tinnitus disability and handicap questionnaires. **Seminars in Hearing**, 14(4), 377-384.
 - 14 Tyler RS. (1993). Speech perception by children. In: R. S. Tyler (ed.), **Cochlear Implants: Audiological Foundations** (pp. 191-256). San Diego: Singular Publications.
 - 15 Tyler RS. (1994). The use of speech-perception tests in audiological rehabilitation: Current and future research needs. In: J.-P. Gagné & N. Tye-Murray (eds.), **Research in Audiological Rehabilitation: Current Trends and Future Directions** [Monograph]. **Journal of the Academy of Rehabilitative Audiology**, 27, 47-66.
 - 16 Tyler RS, Haskell GB, Parkinson AJ. (1994). Hearing aids, assistive listening devices, tactile aids, and cochlear implants. **Current Opinion in Otolaryngology & Head and Neck Surgery**, 2, 438-443.
 - 17 Kelsay DMR, Tyler RS. (1996). Children and cochlear implants. In: F.N. Martin & J.G. Clark (eds.), **Hearing Care for Children**. Needham Heights, MA: Allyn & Bacon: 249-262.
 - 18 Tyler RS. (1998). Tinnitus. In Richard Carmen (ed.), **A Consumer Handbook on Hearing Loss & Hearing Aids: A Bridge to Healing**. Sedona, AZ: Auricle Ink Publishers: 200-213.
 - 19 Tyler RS. (2000). Psychoacoustical Measurement. In Tyler, R.S. (Ed.), **Tinnitus**

- Handbook.** San Diego, CA: Singular Publishing Group: 149-180.
- 20 Tyler RS, Haskell G, Preece J, Bergan C. (2001). Nurturing patient expectations to enhance the treatment of tinnitus. **Seminars in Hearing**, 22 (1), 15-21.
- 21 Tyler RS, Smith RJ. (2002) Management of Tinnitus in Children. In Newton, V.E. (Ed.), **Paediatric Audiological Medicine**, 20. Philadelphia. Whurr Publishers Ltd., pp. 397-404.
- 22 Tyler RS, Erlandsson S. (2003). Management of the Tinnitus Patient. In Luxon, L. M., Furman, J. M., Martini, A., and Stephens, D. (Eds.), **Textbook of Audiological Medicine**. Oxford, England: Isis Publications, pp. 571-578.
- 23 Tyler RS, Bergan C, Preece J, Nagase S. (2003). Audiologische Messmethoden de Hyperakusis. In M. Nelting (Ed.) *Hyperakusis*, 6, 39-46. Stuttgart: Georg Thieme Verlag.
- 24 Tyler RS, Witt S. (2004) Cochlear Implants in Adults: Candidacy. In R. Kent (Ed.) **The MIT Encyclopedia of Communication Disorders**. Cambridge, Massachusetts: The MIT Press, pp. 450-454.
- 25 Dunn C, Tyler RS, Witt SA, Gantz BJ, Rubinstein J. (2004). Frequency and Electrode Contributions to Localization In Bilateral Cochlear Implants, in Proceedings of the VIII International Cochlear Implant Conference. International Congress Series. Amsterdam: Elsevier: 443-446.
- 26 Tyler RS, Noble W, Preece JP. (2004). Chapter 23: Psychological Treatments for Tinnitus. In (Ed.) Snow. **Tinnitus: Theory and Management**. Hamilton, Canada, BC Decker: 314-323.
- 27 Rubinstein JT, Tyler RS. (2004) Chapter 24: Electrical Suppression of Tinnitus. In (Ed.) Snow, J. **Tinnitus: Theory and Management**. Hamilton, Canada: B.C. Decker: 326-335.
- 28 Tyler RS, Dunn C, Witt S, Noble W, Gantz BJ, Rubinstein J, Preece, Parkinson A, Branin. (2005). Chapter: Spatial Hearing for patients with Cochlear Implants and Hearing Aids, in **Cochlear Implants: A practical guide**, 2nd Edition Cooper, H. and Craddock, L. (eds.) London: Pergamon Press.
- 29 Tyler RS. (2006). Chapter 1: Neurophysiological Models, Psychological Models, and Treatments for Tinnitus. In Tyler RS (Ed.), Tinnitus Treatment: Clinical Protocols. New York: Thieme: Pp. 1-22.
- 30 Tyler RS, Gehringer AK, Noble W, Dunn CC, Witt, SA, Bardia A. (2006). Chapter 9: Tinnitus Activities Treatment. In Tyler RS (Ed.), Tinnitus Treatment: Clinical Protocols. New York: Thieme: Pp. 116-132.
- 31 Tyler RS, Dunn CC, Witt SA, Noble W, Gantz BJ, Rubinstein JT, Parkinson AJ, Branin SC. (2006) Chapter 15: Soundfield Hearing for Patients with Cochlear Implants and Hearing Aids. In Cooper HR, Craddock LC, (Eds.), Cochlear Implants, A Practical Guide. London and Philadelphia: Whurr Publishers: Pp. 338-365.
- 32 **In Press** Tyler RS, Noble W, Coelho C, Haskell G, Bardia A. (2007) Tinnitus and Hyperacusis In Katz J, Burkard R, Medwetsky L, Hood L (Eds.) Handbook of Clinical Audiology, Sixth Edition. Baltimore: Lippincott Williams & Wilkins.
- 33 Dunn C, Yost W, Noble W, Tyler R, Witt S. (2006). Advantages of Binaural Hearing. In: Cochlear Implants. S. Waltzman and T. Roland (eds.). Thieme Medical Publishers: New York, NY.
- 34 Tyler RS, Dunn CC, Witt SA, Noble W, Gantz BJ, Rubinstein JT, Parkinson AJ, Branin SC. (2006) Chapter 15: Soundfield Hearing for Patients with Cochlear Implants and Hearing Aids. In Cooper HR, Craddock LC, (Eds.), Cochlear

Implants, A Practical Guide. London and Philadelphia: Whurr Publishers: Pp. 338-365.

Abstracts

Over 200 published abstracts corresponding to published manuscripts

Reviews

- 1 Bench J, Bamford J. (1980). **Speech-Hearing Tests and the Spoken Language of Hearing-Impaired Children.** Academic Press, London, 1979: reviewed in British Journal of Audiology, 1980
- 2 Lutman M, Haggard MP. **Hearing Science and Hearing Disorders.** Academic Press, London, 1983: reviewed in Annals of Otology, Rhinology, and Laryngology
- 3 Jerger J. (ed.) **Pediatric Audiology: Current Trends.** College-Hill Press, San Diego, 1984: reviewed in Annals of Otology, Rhinology, and Laryngology.
- 4 Jerger J. (ed.) **Hearing Disorders in Adults: Current Trends.** College-Hill Press, San Diego, 1984: reviewed in Annals of Otology, Rhinology, and Laryngology.
- 5 Clark JG, Yanick P. **Tinnitus and its Management.** C. C. Thomas, Springfield, IL, 1984: reviewed in Annals of Otology, Rhinology, and Laryngology.
- 6 Durrant J D, Lovrinic GH. **Bases of Hearing Science.** Williams & Wilkins, Baltimore, 1984: reviewed in Annals of Otology, Rhinology, and Laryngology.
- 7 Berlin C. (ed.) **Hearing Science.** College-Hill Press, San Diego, 1984: reviewed in Annals of Otology, Rhinology, and Laryngology.
- 8 Jacobson JT. (ed.) **The Auditory Brainstem Response.** College-Hill Press, San Diego, 1984: reviewed in Annals of Otology, Rhinology, and Laryngology.
- 9 Alpiner JG, McCarthy PA. (eds.) **Rehabilitative Audiology: Children and Adults.** Williams & Wilkins, Baltimore, 1987: reviewed in Annals of Otology, Rhinology, and Laryngology.
- 10 Owens E, Kessler DK. (eds.) **Cochlear Implants in Young Deaf Children.** College-Hill Press, Boston, 1989: reviewed in Ear and Hearing.
- 11 Clark GM, Tong YC, Patrick JF. (eds.) **Cochlear Prostheses.** Churchill Livingstone, Edinburgh NY, 1991: reviewed in ASHA
- 12 Bailly G, Benoit C, Sawallis T. (eds.) **Talking Machines: Theories, Models and Designs.** Elsevier, Amsterdam, 1992: reviewed in Journal of Speech and Hearing Research
- 13 Cazals Y, Demany L, Horner K. (eds.) **Auditory Physiology and Perception: Advances in the Biosciences (Volume 83).** Pergamon Press, Elmsford, NY, 1992: reviewed in ASHA.
- 14 Willott JF. (ed.) **Ageing and the Auditory System: Anatomy, Physiology, and Psychophysics.** Singular Publishing Group, Inc., San Diego, 1991: reviewed in ASHA.
- 15 Feigin JA, Stelmachowicz PG. (eds.) **Pediatric Amplification: Proceedings of the 1991 National Conference.** Boys Town National Research Hospital, Omaha, NE, 1991: reviewed in ASHA.
- 16 Summerfield AS, Marshall DH. (1995). **Cochlear Implantation in the UK 1990-**

1994. MRC Institute of Hearing Research, University of Nottingham, Nottingham, UK. Reviewed in British Journal of Audiology.

Test and Training materials

- 1 Tyler RS, Preece JP, Lowder MW. (1983). **The Iowa Cochlear Implant Test Battery.** (Fifteen tests, including five speechreading tests, for the assessment of cochlear implant patients). Copyright with Department of Otolaryngology--Head and Neck Surgery, The University of Iowa, Iowa City, IA.
- 2 Tyler RS, Preece JP, Tye-Murray N. (1986). **The Iowa Phoneme and Sentence Tests.** (a laser videodisc with consonant, vowel and sentence tests). Department of Otolaryngology--Head & Neck Surgery, The University of Iowa, Iowa City, IA.
- 3 Tyler RS, Holstad B. (1987). **A Closed-Set Speech Perception Test for Hearing Impaired Children.** Copyright with Department of Otolaryngology--Head and Neck Surgery, The University of Iowa, Iowa City, IA.
- 4 Tye-Murray N, Purdy S, Shum R, Tyler RS. (1988). **The Speechreading and Repair Strategies Performance Inventory.** Department of Otolaryngology--Head and Neck Surgery, The University of Iowa, Iowa City, IA.
- 5 Tye-Murray N, Purdy S, Tyler RS. (1988). **The Listening Strategies Test.** (Laser Videodisc). Department of Otolaryngology--Head and Neck Surgery, The University of Iowa, Iowa City, IA.
- 6 Tye-Murray N, Tyler RS, Holstad BA. **Laser Videodisc Interactive Speechreading: Syllable and Phrase Training.** Laser videodisc, Department of Otolaryngology--Head & Neck Surgery, The University of Iowa, Iowa City, IA.
- 7 Tye-Murray N, Tyler RS, Holstad BA. **Laser Videodisc Interactive Speechreading: Sentence Training, Parts 1 and 2.** Laser videodisc, Department of Otolaryngology--Head & Neck Surgery, The University of Iowa, Iowa City, IA.
- 8 Tye-Murray N, Tyler RS. **Laser Video Disc Interactive Speechreading: Classroom Listening, Parts 1 and 2.** Laser videodisc, Department of Otolaryngology--Head and Neck Surgery, The University of Iowa, Iowa City, IA.
- 9 Tye-Murray N, Tyler RS. **Laser Videodisc Interactive Speechreading: Everyday Listening, Parts 1 and 2.** Laser videodisc, Department of Otolaryngology--Head & Neck Surgery, The University of Iowa, Iowa City, IA.
- 10 Tyler RS, Iverson P. (2000). **Realistic Subjective Rating for Auditory Processors.** Department of Otolaryngology—Head and Neck Surgery, The University of Iowa, Iowa City, IA.

Other

- 1 Tyler RS. (1981). Invited discussant. **Tinnitus**, Ciba Foundation Symposium 85: Pitman.
- 2 Tyler RS, Tye-Murray N, Otto S. (1989). Spectral processing in multichannel cochlear patients. **Otobrief**, 4, (July), 3-4.
- 3 Goldberg DM, Hensch MA, Bally SJ, Cherow E, Cunningham E, Hampton D, Jackson PL, May JS, Montgomery MM, Nassberg JC, Spitzer JB, Tyler RS, Weber S, Herer GR, Schery TK. (1990). Aural rehabilitation: An annotated bibliography. **Asha**, 32 (Supplement 1), 1-30.
- 4 Goldberg DM, Cherow E, Hampton DC, Jackson PL, Montgomery MM, Nassberg

- JC, Spitzer JB, Tyler RS, Schery TK. (1990). Aural rehabilitation. Thoughts and challenges. **Asha**, **32** (April), 49.
- 5 Ehteshamfar v. UTA Engineered Systems Division, 555 N.W.2d 450 (The Iowa Supreme Court 1996).

Areas of Research Interest and Current Projects

Area	Current Project
Cochlear Implant	Binaural Hearing
Tinnitus	Electrical Suppression
	Retraining Therapy
	Counseling for Tinnitus Patient
Hyperacusis	New treatments

Published Reviews of Scholarship

Dobie R. Review of Tinnitus Handbook, **Ear and Hearing**, 22, #2 (April) 2001.

Grants Received

Title	Source	Amount of Direct Funds	Period of Funding	PI	% Effort	% Salary Support	Role (if not PI)
Cochlear Implants	Lions Clubs International Foundation	\$30,000	1982	Tyler	--	--	
Cochlear implants	Iowa Lions Sight and Hearing Foundation	\$30,000	1982	Tyler	--	--	
Cochlear implants	3M Faculty Grant	\$10,000	1983	Tyler	5	5	
Development of audiovisual tests (including speech reading)	University of Iowa Video Production Fund	\$5,000	1983	Tyler	--	--	
Cochlear implants	Iowa Lions Sight and Hearing Foundation	\$30,000	1983	Tyler	--	--	
Study of tinnitus in elderly	University of Iowa Aging Seed	\$5,000	1984	Tyler	5	--	
Masking	American Tinnitus Association	\$6,500	1984	Tyler	10	--	
Development of tapes for laser	University of Iowa Video	\$2,500	1984	Tyler	--	--	

Title	Source	Amount of Direct Funds	Period of Funding	PI	% Effort	% Salary Support	Role (if not PI)
videodisc	Production Fund						
Council on Teaching	University of Iowa	\$3,500.	1984	Tyler	--	--	
Cochlear Implants Projects & Psycho-acoustics	National Institutes of Neurological and Communicative Disorders and Strokes	\$4,051,318	1985-1990	Gantz	90	90	Co-director and Project Director of Audiology Project
International Test Battery for Cochlear Implant Patients	Collaborative Research Grants Programme, NATO	\$ 3,200	1985	Tyler			
Teaching Lipreading	Council on Teaching Univ. of Iowa	\$695	1986	Tyler			
Testing the Better Cochlear Implant Patients	Welcome Research Travel Grant	\$ 3,365	1986	Tyler			
Videotaped speech perception training program for Cochlear-implant and hearing-impaired patients	University of Iowa Video Production Fund	\$ 2,500	1986	Tyler			
Laser- video audiovisual training materials	Easter Seal Foundation	\$23,300	1986	Tye-Murray	5		Co-Investigator
Flecainide on Tinnitus	3M/Riker Company,	\$7,000	1986	Tyler	5		
Electrical Stimulation of Tinnitus	3M/ Biosciences	\$9,850	1986	Tyler	5		
Computer-based auditory training materials	Deafness Research Foundation	\$12,500	1987	Tye-Murray and Lansing	5		Co-Investigator

Title	Source	Amount of Direct Funds	Period of Funding	PI	% Effort	% Salary Support	Role (if not PI)
Audiovisual speech perception training tapes	University of Iowa Video Production Fund Grant	\$2,500	1987	Tyler			
Laser- video audiovisual training materials	Easter Seal Foundation	\$25,000	1987	Tye-Murray	5		Co-Investigator with Tye-Murray
Validation of a Tinnitus Handicap Questionnaire	HSR&D Veterans Administration	\$7,410	1987	Jordan	5		Co-Investigator
Cochlear implants	Iowa Lions Sight and Hearing Foundation	\$32,000	1987	Tyler			
Cochlear implants in children	Children's Miracle Network Telethon	\$5,000	1987	Tyler			
Cochlear implants	Iowa Lions Sight and Hearing Foundation	\$34,000	1988	Tyler			
Binaural phase effects for the masking of tinnitus	American Tinnitus Association	\$9,600	1988	Tyler	5		
Cochlear implants in children	Children's Miracle Network Telethon	\$4,180	1988	Tyler			
Video lipreading tests to evaluate the performance of cochlear implants and new hearing aids	University of Iowa Video Production Fund	\$2,500	1988	Tyler	5		
New noise-suppression circuit	Siemens Corp.	\$7,000	1988	F. Kuk	3		Co-Investigator
Computer-	Deafness	\$15,000	1988	Tye-	5		Co-

Title	Source	Amount of Direct Funds	Period of Funding	PI	% Effort	% Salary Support	Role (if not PI)
based auditory training materials	Research Foundation			Murray and Lansing			Investigator
Laser-video audiovisual training materials	Easter Seal Foundation	\$24,834	1988	Tye-Murray	5		Co-Investigator
Evaluation of a programmable hearing aid	Widex Hearing Aid Company	\$5,000	1989	Kuk			Co-Investigator
Cochlear implants	Iowa Lions Sight and Hearing Foundation	\$35,000	1989-1990	Tyler			
Validation for the efficacy of a multimemory programmable hearing aid	U.S. Department of Education	\$50,000	1989	Kuk	10		Co-Investigator
Cochlear Implants	National Institute of Deafness & Other Communication Disorders	\$8,788,056	1990 - 1995	Gantz	55	55	Co-Director and Program Director of Audiology
Cochlear implants	Iowa Lions Sight and Hearing Foundation	\$35,000	1990-1991	Tyler			
Electrical Suppression of Tinnitus	French Ministry of Research & Technology Senior Scientist Fellowship	\$18,000	1991	Tyler	5		
Cochlear implants	Iowa Lions Sight and Hearing Foundation	\$35,000	1991-1992	Tyler			
Hearing-aid research	Iowa Lions Sight and Hearing Foundation	\$700	1991	Don Schum	1		Co-Director
Electrical Suppression of Tinnitus in	American Tinnitus Association	\$10,000	1991	Tyler	5		

Title	Source	Amount of Direct Funds	Period of Funding	PI	% Effort	% Salary Support	Role (if not PI)
Cochlear Implant Patients							
Hearing Tests	Central Investment Fund for Research Enhancement (CIFRE)	\$695	1993	Tyler			
Cochlear implants.	Iowa Lions Sight and Hearing Foundation	\$29,000	1992-1993	Tyler			
Research Training Program in Otolaryngology	NIDCD	\$156,240	1993-2003	Gantz	5		Co-Investigator
Cochlear Implants	Iowa Lions Sight and Hearing Foundation	\$26,500	1993-1994	Tyler			
Cochlear Implants	Iowa Lions Sight and Hearing Foundation	\$26,500	1994-1995	Tyler			
Cochlear Implants	Lions Clubs International Foundation	\$36,000	1995-1996	Tyler			
Cochlear Implants	National Institute of Deafness & Other Communication Disorders	\$6,029,496	1995-2000	Gantz	60	60	Co-Director
Cochlear Implant Conference	Department of Health & Human Services National Deafness and Other Communication Disorders Advisory Council	\$25,000	5/98-8/98	Tyler	5	0	

Title	Source	Amount of Direct Funds	Period of Funding	PI	% Effort	% Salary Support	Role (if not PI)
Electrical Suppression of Tinnitus	Tinnitus Research Consortium	\$299,801	2000 / 2002	Rubinstein	10	10	Co-Investigator
Newborn Hearing Screening	Children's Miracle Network	\$8,750	2000	Tyler	0	0	
Cochlear Implants	Iowa Lions Sight and Hearing Fnd.	\$35,100	2000	Tyler	2	0	
Electrical Stimulation for Tinnitus Suppression	Braintronics Inc.	\$120,000	2/99 – 1/01	Rubinstein	5	0	Co-Investigator
The Effectiveness of Tinnitus Retraining Therapy	American Tinnitus Association	\$93,500	2000 / 2002	Tyler	10	0	
Cochlear Implants	Iowa Lions Sight and Hearing Fnd	\$35,100	2002 / 2003	Tyler	2	0	
Iowa Cochlear Center Project IV	NIDCD DC00242-12	\$7,575,000	2001-2006	Gantz	55	55	Co-Director
A Pilot Study and the Development of a Grant Application for Tinnitus Treatment	Obermann center for Advanced Studies (University of Iowa)	\$12,000	2003	Tyler	5	5	
Music Therapy for Tinnitus	American Tinnitus Association	\$101,395	2003-2006	Tyler	5	5	
Randomized Trial of Tinnitus Retraining Therapy	NIH R01 DC005972-01A1	\$1,700,000	2004-2009	Tyler	35	35	
Optimized Conditioned Processing for Cochlear Implants	NIH RFA-DC-04-001	\$99,778	2005-2007	Rubinstein	5	5	Subcontractor PI

Title	Source	Amount of Direct Funds	Period of Funding	PI	% Effort	% Salary Support	Role (if not PI)
Iowa Cochlear Center Project V	NIDCD DC00242-12	\$7,575,000	2006-2011	Gantz	10	10	Co-Director
Zinc to Treat Tinnitus in the Elderly	Tinnitus Research Initiative	\$120,638	2007-2009	Tyler	10	10	

Invited Lectures/ Conference Presentations/ Visiting Professorships

Invited Lectures

Presentations before Scientific Meetings

Over 200 presentations before numerous scientific meetings, including the Association for Research in Otolaryngology; the American Academy of Otolaryngology; the Acoustical Society of America; the American Speech, Language and Hearing Association; the British Society of Audiology; the British Psychological Society; the Australian Audiological Society; the Canadian Speech, Language and Hearing Association; and the Iowa Speech, Language and Hearing Association.

- 1979 University of Keele
- 1979 University of Southampton Institute of Sound and Vibration Research
- 1979 Stockholm University, Sweden
- 1980 Fifth International Symposium on Hearing, The Netherlands
- 1980 University College, London
- 1980 Cambridge University
- 1981 Ciba Foundation Symposium 85 on Tinnitus, London, England
- 1981 Working Conference on Uses of Computers in Aiding the Disabled, Israel
- 1981 Electroacoustic Institute, Munich, West Germany
- 1981 Boys Town Institute for Communication Disorders
- 1982 Second International Meeting on Tinnitus, New York, New York
- 1982 University of Western Ontario
- 1982 University of Illinois
- 1982 3M Corporation, Minneapolis
- 1982 University of Minnesota
- 1983 Sixth International Symposium on Hearing, Germany
- 1983 Von Bekesy Society, Los Angeles, California
- 1983 Workshop on Tinnitus and Cochlear Implants, Cincinnati, Ohio
- 1983 Workshop of Temporal Processing in the Hearing Impaired, Cincinnati, Ohio
- 1983 University of Vienna, Austria
- 1983 University College of London, England
- 1983 MRC Institute of Hearing Research, Nottingham, England
- 1983 Cambridge University, England
- 1984 Scott Reger Conference on Sensorineural Hearing Loss, Iowa City, Iowa
- 1984 First Clinical Workshop for Multichannel Cochlear Implants, Boulder, Colorado
- 1984 Auditory Evoked Potentials: Clinical Applications Workshop, Iowa City, Iowa
- 1984 Seminar on Cochlear Implants, Massachusetts Eye and Ear Hospital, Boston, Massachusetts
- 1984 Workshop on Speech Processing in Cochlear Implants, San Francisco, California

- 1984 Recent Advances in Technology for the Hearing Impaired, Deafness Research Association, Gallaudet College, Washington, D.C.
- 1984 Workshop on Tinnitus and Cochlear Implants, Alberta Speech and Hearing Association, Canada
- 1984 Neurology Association of Edmonton, An Introduction on Cochlear Implants
- 1984 3M Corporation, Minneapolis
- 1984 Siouxland Medical Education Foundation, Inc., Sioux City
- 1984 Glenrose Hospital, Edmonton
- 1984 Eaton Peabody Laboratory, Boston
- 1985 Overview of Cochlear Implants, Wisconsin Speech and Hearing Association
- 1985 XIII World Congress of Otorhinolaryngology, Florida
- 1985 Keynote address, Iowa Teachers of the Hearing Impaired Conference, Council Bluffs, Iowa
- 1985 Iowa Speech-Language-Hearing Association Annual Convention
- 1985 NATO Conference on Noise Induced Hearing Loss, Lucca, Italy
- 1985 Tactile Communication Conference, Wichita, Kansas
- 1985 Cochlear Implant, Melbourne, Australia
- 1985 Update on Cochlear Implants, Iowa Department of Public Instruction, Cedar Rapids, Iowa
- 1985 University of Rochester Medical Center
- 1985 Cambridge University
- 1985 MRC Institute of Hearing Research, Nottingham, England
- 1986 Cochlear Implants in Children, Durango, Colorado
- 1986 NYU Medical School Conference on Cochlear Implants
- 1986 NATO Conference on Frequency Resolution, Cambridge, England
- 1986 Cochlear Implants, Iowa Parents of Hearing-impaired Children, Amana, Iowa
- 1986 Northwestern University
- 1986 Ear International, Los Angeles
- 1987 Cochlear Implants in Children, Iowa Department of Public Instruction, Cedar Rapids, Iowa
- 1987 Third International Tinnitus Seminar, Muenster, West Germany
- 1987 International Cochlear Implant Symposium, Cologne, West Germany
- 1987 Cochlear Implants for Adults, Profound Deafness Study Group, Sydney, Australia
- 1987 Cochlear Implants in Children, Australian Audiology Society, N.S.W. Branch Scientific Meeting, Sydney, Australia
- 1987 Auditory Evoked Potentials: Clinical Applications Workshop, Iowa City, Iowa
- 1987 Differences Among Tinnitus Patients, Australian Tinnitus Association, St. Vincent's Hospital, Sydney, Australia
- 1987 Psychophysics of Cochlear Implants, Gordon Research Conference, New London, New Hampshire
- 1987 International Conference on Cochlear Implants, Duren , West Germany
- 1987 Evaluation of Cochlear Implant Patients – British Society of Audiology, Birmingham, United Kingdom
- 1987 National Acoustics Laboratory, Sydney
- 1987 Speech Perception by the Profoundly Deaf, Sydney Linguistics Circle, Sydney
- 1987 University of Auckland, Auckland, New Zealand
- 1987 University of Melbourne, Australia
- 1988 International Congress of Audiology, Israel
- 1988 8th International Symposium on Hearing: Basic Issues in Hearing, Groningen, The Netherlands
- 1988 New Technologies for Communication in the Hearing Impaired, Wolfheze, The Netherlands
- 1988 Boys Town National Institute, Omaha
- 1988 Beijing Institute of Otolaryngology, China

- 1988 Jinzhou Medical University, China
- 1988 City University of New York
- 1989 Aural Rehabilitation of the Tinnitus Patient, Academy of Aural Rehabilitation, Austin, Texas
- 1989 Clinical Development in Cochlear Implants, London, United Kingdom
- 1989 Speech Perception with Different Cochlear Implants, Engineering Foundation, Potosi, Missouri
- 1989 Clinical Protocols for Cochlear Implant Patients, Boston, Massachusetts
- 1989 National Acoustics Laboratory, Sydney
- 1989 University of Melbourne, Australia
- 1989 Hearing Research and Diagnostic Clinic, Sydney
- 1989 MacQuarie University, Sydney
- 1989 MRC Institute of Hearing Research, Nottingham, England
- 1990 Seattle Area Tinnitus Forum, Seattle, Washington
- 1990 Presbycusis, A broad overview. CHABA, National Academy of Sciences, Washington, D.C.
- 1990 Institut des sourds de Charlesbourg, Charlesbourg, Quebec, Canada
- 1991 Canadian Speech, Language & Hearing Association, Montreal, Canada
- 1991 Japanese Audiological Society, Japan
- 1991 Speech Perception for the Hearing Impaired: Implications for Hearing Aid Technology, Dallas, Texas
- 1991 IVth International Tinnitus Seminar, Bordeaux, France
- 1991 Otolaryngology Continuing Education Conference, Sao Paulo, Brazil
- 1991 Conference on Implantable Auditory Prosthesis, Pacific Grove, California
- 1991 Iwate Medical University, Uchimaruru, Morioka, Iwate, Japan
- 1992 Australian Audiological Society, Adelaide, Australia
- 1992 Manitoba Speech & Hearing Association, Manitoba, Canada
- 1992 British Columbia Speech & Hearing Association, Vancouver, Canada
- 1992 Minnesota Speech & Hearing Association, Duluth, Minnesota
- 1992 Conference on Paediatric Cochlear Implants, Nottingham, United Kingdom
- 1992 International Cochlear Implant Symposium, Bordeaux, France
- 1992 XXI International Congress on Audiology, Morioka, Japan
- 1992 Phonak Laboratories, Zurich, Switzerland
- 1993 French Congress on Audiology, Bordeaux, France
- 1993 3rd International Cochlear Implant Conference, Innsbruck, Austria
- 1993 Normal & Impaired Aspects of Phonology & Morpho-Syntax, McGill Seminar Series, Montreal, Canada
- 1994 National Student Speech-Language and Hearing Association, Mid-South Conference, Memphis, Tennessee
- 1994 5th Symposium on Cochlear Implants in Children, New York, New York
- 1994 International Hearing Aid Society, Nashville, Tennessee
- 1994 Marmara Medical Days Conference, Istanbul, Turkey
- 1995 International Course on the Habilitation of Profound Hearing Loss in Children, Bolzano, Italy
- 1995 National Collegium of Rehabilitation Audiology, Goteborg, Sweden
- 1995 Association for Research in Otolaryngology, St. Petersburg, Florida
- 1995 The Eriksholm Consensus Conference, Copenhagen, Denmark
- 1996 IVth Seminar on Audiology and Phoniatic, Bolzano, Italy
- 1996 Sixth Symposium on Cochlear Implants in Children, Miami, Florida
- 1996 The First Asia Pacific Symposium on Cochlear Implant and Related Sciences, Kyoto, Japan
- 1996 Association for Research in Otolaryngology, St. Petersburg, Florida

- 1996 International Conference on Hearing Screening, Diagnosis, & Management of the Hearing-Impaired Child, Iowa City, IA
- 1996 XXIIIrd International Congress of Audiology, Bari, Italy
- 1996 Third European Symposium on Paediatric Cochlear Implantation, Hanover, Germany
- 1996 International Conference of ACFOS: Neurosciences and Early Deafness, Paris, France
- 1996 National Institute of Special Education, Nobi, Japan
- 1996 Tokyo Medical College Hospital, Tokyo, Japan
- 1997 West Coast Conference American Academy of Audiology, San Diego, CA
- 1997 Iowa Speech-Language-Hearing Association, Des Moines, IA
- 1997 Oberman Seminar Series, Oakdale, IA
- 1997 British Cochlear Implant Spring Academic Meeting, Nottingham, UK
- 1997 Colorado Hearing Foundation Otology-Audiology Conference, Breckenridge, CO
- 1997 American Academy of Audiology 9th Annual Conference, Fort Lauderdale, FL
- 1997 Vth International Cochlear Implant Conference, New York City, NY
- 1997 10th Annual Hearing Aid Seminar, Cape Girardeau, MO
- 1998 European Pediatric Cochlear Implant Conference, Holland
- 1998 Cochlear Implants Audiology Conference, Adana, Turkey
- 1998 Mayo Clinic Symposium, Rochester, MN
- 1999 Illinois Audiology Meeting, Chicago, IL
- 1999 Pacific Congress on Cochlear Implants, Korea
- 1999 6th International Tinnitus Seminar, Cambridge, UK
- 2000 Cochlear Implant 2000, Miami, FL
- 2000 Electronic Implants and Hearing Aids, Birmingham, England
- 2000 Pediatric Cochlear Implant Conference, Antwerp, Belgium
- 2001 3rd Congress of Asia Pacific Symposium on Cochlear Implant and Related Science, Osaka, Japan: "New Speech Coding Strategies"
- 2001 Asilomar 2001 Conference, Pacific Grove, CA: "Binaural Cochlear Implants"
- 2001 5th European Federation of Audiology Societies, Bordeaux, France: "Will Cochlear Implants Replace Hearing Aids?"
- 2001 Consensus on Auditory Implant, Padua, Italy: "Selection Criteria"
- 2001 Canadian Academy of Audiology, Toronto, Canada: "Tinnitus Management"
- 2001 International Conference in Speech/Language Pathology, Korea: "Cochlear Implant Rehabilitation"
- 2001 The University of Montreal, Montreal, Canada: "Brain Plasticity"
- 2002 National Hearing Conservation Meeting, Dallas, Texas: Legal Aspects of Tinnitus
- 2002 Cochlear Implant Conference, Frankfurt, Germany: Cochlear Implants in Children
- 2002 Ohio Academy of Audiology, Columbus, Ohio: Treating Tinnitus
- 2003 Colorado Audiology-Otology Conference, Vail, CO: Tinnitus Update
- 2003 Appalachian Spring Conference, Johnson City, TN: Management of the Tinnitus Patient
- 2003 National Research Council, Washington, DC: How Tinnitus Can Affect Work
- 2003 American Academy of Audiology, San Antonio, TX: Approaches to Tinnitus Treatment
- 2003 Annual Cairo University Otolaryngology Conference, Cairo, Egypt: Tinnitus
- 2004 European Investigator's Conference, Vienna, Austria: Signal Processing for Binaural Implants.
- 2004 Iowa Speech Language Hearing Association 2004 Annual State Convention, Des Moines, IA: The Future of Cochlear Implants in Children and Adults.
- 2004 McMaster University Seminar, Hamilton, Ontario: Measuring Tinnitus.
- 2005 Haifa Medical Center, Israel. Fitting cochlear implants
- 2005 University of Manchester, United Kingdom. Bilateral issues for cochlear implants and hearing aids.
- 2005 University of Montreal. Workshop on Tinnitus

IV. SERVICE

A. Offices held in professional organizations

Office	Year	Organization
Board Member	1984-1985	American Speech-Language-Hearing Association Committee on Cochlear Implants
Board Member	1985	National Research Council, member of committee to evaluate hearing and vision testing in the military
Board Member	1985-87	National Research Council, member of Committee on Hearing, Bioacoustics and Biomechanics (CHABA WG 95), committee on communication aids for the hearing impaired
Board Member	1986	The American Academy of Otolaryngology – Head & Neck Surgery Subcommittee on cochlear implants
Investigator	1986-1989	Veterans Administration Planning Committee on a Cooperative Study on Cochlear Implants
Committee Member	1987	Program Committee for American Speech- Language-Hearing Association Convention
Committee Member	1988-1990	American Speech-Language-Hearing Association Committee on Aural Rehabilitation
Committee Member	1988-1990	Engineering Research Conference on Cochlear Implants – Planning Committee
Editorial Board	1989-1991	Journal of Auditory Communication
Consulting Editor	1989-1991	Audiology in Practice
Editorial Board	1990-1995	Journal of the American Academy of Audiology
Associate Editor	1991-1994	Audiology
Overseas Editor	1991	The Australian Journal of Audiology
Committee Member	1991	Scientific Programme Committee, IVth International Tinnitus Seminar (Tinnitus 91), Bordeaux, France
Committee Member	1991	Research Needs of Oral Auditory Hearing- Impaired Persons. Committee member, National Institute of Deafness and other Communication Disorders, Bethesda, Maryland
Committee Member	1992	Planning Committee, Meeting on Cochlear Implants: American Speech-Language-Hearing Association
Editorial Board	1995	American Journal of Otology
Editorial Board	1995	American Tinnitus Association Scientific Advisory Committee Chairperson
Committee Member	1995-1996	Association for Research in Otolaryngology Midwinter Meeting Organizing Committee
Overseas Editor	1996	British Journal of Audiology
Overseas Editor	1999	Cochlear Implants International

Member	1980 – 1981	British Society of Audiological Scientists
Member	1980 – 1981	Royal National Institute for the Deaf
Member	1980 – 1981	British Tinnitus Society
Member	1981	American Tinnitus Association
Member	1982	Association for Research in Otolaryngology
Member	1982 – 1984	New York Academy of Science
Member	1982	International Society of Audiology
Member	1982	American Auditory Society
Member	1984 - 1993	Sigma Xi
Member	1986	Alexander Graham Bell Association
Consultant	1986 - 2001	Veterans Administration Medical Center, Department of Audiology and Speech Pathology, Iowa City, IA.
Member	1987	Academy of Rehabilitative Audiology
Member	1988	American Academy of Audiology
Member	1998	International Society of Audiology
Editorial Consultant	2004 – Present	The Australian & New Zealand Journal of Audiology
Grant Reviewer	Present	National Institutes Of Health
Grant Reviewer		Alberta Ministry Of Health
Grant Reviewer		National Science Foundation
Grant Reviewer		Medical Research Council, Canada
Grant Reviewer		National Institutes Of Health, National Institute Of Deafness And Other Communicative Disorders
Grant Reviewer		Swiss National Science Foundation
Manuscript Reviewer		Archives of Otolaryngology-Head & Neck Surgery
Manuscript Reviewer		Journal of the Acoustical Society of America
Manuscript Reviewer		Journal of Speech and Hearing Research
Manuscript Reviewer		Journal of Speech and Hearing Disorders
Manuscript Reviewer		Journal of Experimental Psychology
Manuscript Reviewer		Annals of Otology, Rhinology and Laryngology
Manuscript Reviewer		Ear and Hearing
Manuscript Reviewer		Audiology
Manuscript Reviewer		The New England Journal of Medicine
Manuscript Reviewer		IEEE Transaction on Rehabilitation Engineering
Manuscript Reviewer		Cochlear Implants International: An Interdisciplinary Journal

Convention Organizer

Office	Year	Organization
Co-organizer	1982	Auditory Brainstem Response Update
Co-organizer	1984	Auditory Brainstem Response Update
Co-Organizer	1989	International Meeting on Cochlear Implants
Chairperson	1991	International Hearing Aid Conference
Committee Member	1991	Planning Committee, IVth International Tinnitus Convention
Committee Member	1992	Executive Committee, SHHH National Convention
Chairperson	1992	Assistive Devices for the Hearing Impaired

Chairperson	1993	Second International Hearing Aid Conference
Chairperson	1993	Management of the Tinnitus Patient
Chairperson	1994	Audiological Management of the Elderly
Chairperson	1994	Management of the Tinnitus Patient
Chairperson	1995	Third International Hearing Aid Conference
Chairperson	1995	Management of the Tinnitus Patient
Chairperson	1996	International Conference on Hearing Screening, Diagnosis and Management of Hearing Impaired Children
Chairperson	1996	Fourth Annual Conference on Management of the Tinnitus Patient
Chairperson	1997	International Hearing Aid Conference IV
Chairperson	1997	Fifth Annual Conference on Management of the Tinnitus Patient
Co Chairperson	1998	Seventh Symposium on Cochlear Implants in Children
Chairperson	1998	The 6 th Annual Management of the Tinnitus Patient
Chairperson	1999	International Hearing Aid Conference V
Chairperson	1999	The 7 th Annual Management of the Tinnitus Patient
Chairperson	2000	Binaural Hearing, Hearing Loss, Hearing Aids and Cochlear Implants
Chairperson	2000	The 8 th Annual Management of the Tinnitus Patient
Chairperson	2001	International Hearing Aid Conference VI
Chairperson	2001	The 9 th Annual Conference on Management of the Tinnitus Patient
Chairperson	2002	The 10 th Annual Conference on Management of the Tinnitus Patient
Chairperson	2003	The 11 th Annual Conference on Management of the Tinnitus Patient
Chairperson	2004	The 12 th Annual Conference on Management of the Tinnitus Patient
Chairperson	2005	The 13 th Annual Conference on Management of the Tinnitus Patient
Co-Chairperson	2005	International Binaural Symposium 2005
Chairperson	2006	The 14 th Annual Conference on Management of the Tinnitus Patient