

Lloyd Minor

Office of the Dean
Stanford University School of Medicine
291 Campus Drive, Room LK3C02, MC 5216
Stanford, CA 94305-5101



CURRENT APPOINTMENTS

Carl and Elizabeth Naumann Dean of the School of Medicine, Stanford University, 12/12–present

Professor of Otolaryngology–Head and Neck Surgery, Stanford University, 09/12–present

Professor of Bioengineering and of Neurobiology, by courtesy, Stanford University, 12/12–present

NARRATIVE OVERVIEW

Johns Hopkins University

Provost and Senior Vice President for Academic Affairs, 2009–2012

Andelot Professor and Chair of the Department of Otolaryngology–Head and Neck Surgery, 2003–2009

Minor began his faculty career in 1993 as a clinician scientist at Johns Hopkins. His basic research focused on neurophysiological studies of the vestibular system (the inner ear sense of balance), and his clinical practice focused on patients with vestibular disorders and involved the medical and surgical components of otology and neurotology. Minor built an active, NIH-supported research program, and his first R01 grant is still funded today (2020) with a colleague who is now principal investigator. His basic research also had significant clinical impact when, in 1998, he described a previously unrecognized inner ear disorder, which he named superior canal dehiscence syndrome. He developed a surgical procedure to correct the disorder that is now a commonly used therapy, bringing considerable benefit to patients with previously refractory symptoms. In 2012, Minor was elected to the Institute of Medicine (now the National Academy of Medicine).

During his tenure as Chair of the Johns Hopkins Department of Otolaryngology from 2003 to 2009, Minor expanded annual research funding by more than half and increased clinical activity by more than 30 percent, while strengthening teaching efforts and student training. He also initiated a comprehensive diversity program that focused on creating a climate of inclusion and respect by aggressively recruiting qualified underrepresented and women faculty, developing mentorship programs for diverse faculty, and increasing the pipeline of qualified candidates. From 2003 to 2009, the number of female clinical faculty increased from 5.8 percent to 33.3 percent, and the number of female research faculty increased from 11.1 percent to 21.4 percent.

As Provost and Chief Academic Officer (2009–2012), Minor launched many university-wide programs, such as the Gateway Sciences Initiative to support pedagogical innovation and award grants for improving student learning in introductory science courses. Committed to building on Johns Hopkins' historical legacy, he established the Doctor of Philosophy Board, a university-wide board that approves candidates for the PhD

degree. Minor also worked with others around the university and health system to coordinate the Individualized Health Initiative, which uses genetic information to transform health care.

During his tenure as Provost, Minor made the undergraduate experience an institutional priority by shifting the reporting structure and recruiting a new Vice Provost for Student Affairs and a new Vice Provost for Admissions and Financial Aid. Other initiatives strengthened student advising, enhanced campus community, and promoted civic engagement, resulting in increased selectivity (27 percent in 2009 to 18 percent in 2011) and yield (31 percent in 2009 to 36 percent in 2011). The number of underrepresented minorities in the incoming freshman class rose to a record 18 percent in 2011, up from 12.9 percent in 2009.

Stanford University

Carl and Elizabeth Naumann Dean of the School of Medicine, since 2012

As chief executive and the academic, clinical, and business leader of the Stanford School of Medicine, Minor has overseen significant growth during his tenure. The annual budget increased from \$1.6 billion in 2013 to a projected \$2.8 billion in fiscal year 2021, and the number of faculty increased from 1,851 to 2,802; students from 1,240 to 1,661; residents and clinical fellows from 937 to 1,356; and postdoctoral fellows from 1,147 to 1,428.

Minor oversees the selection and quality of all physicians within Stanford Medicine, an academic medical center with a projected \$10.7 billion operating budget in fiscal year 2021 (up from \$5.5 billion in 2013) that includes the school, Stanford Health Care, and Stanford Children's Health, and he also plays an integral role in setting strategy for the clinical enterprise. In this capacity, Minor has enhanced faculty accountability for quality, safety, and value, leading to significant improvements in the institution's performance on key quality metrics. He also led the development and implementation of an innovative cancer research and care delivery model, which helped Stanford achieve "Comprehensive" status by the National Cancer Institute. And with the WellMD Center, Minor has positioned Stanford Medicine as an internationally recognized leader in physician wellness.

In philanthropy, Minor led the Campaign for Stanford Medicine, which raised \$1.7 billion from 30,000 individuals, corporations, and foundations for a variety of programs, including support for biomedical innovation initiatives and the building of the new Stanford Hospital. Since the conclusion of the campaign in 2016, he has overseen continued growth in annual fundraising. In 2020, Stanford Medicine raised \$485 million in philanthropic support (up from \$244 million in 2012) from entrepreneurs and leaders in diverse industries and \$430 million in new commitments. He played a central role in cultivating and negotiating Stanford's founding membership in two revolutionary partnerships: the Chan Zuckerberg Biohub and the Parker Institute for Cancer Immunotherapy. A trusted partner in Silicon Valley, Minor has enhanced Stanford Medicine's relationship with industry partners such as Google and Apple.

In research, Minor has promoted core support and infrastructure that has helped Stanford Medicine's NIH portfolio grow despite a stagnant NIH budget, from \$295 million in 2012 to \$471 million in 2019. Overall, the school's total NIH funding ranking has moved up from #10 in 2012 to #5 in 2019, according to data reported in 2020. And total sponsored research awards to Stanford Medicine have increased 93 percent during this same period, from \$443 million to \$853 million.

In 2015, Minor articulated an industry-leading strategic vision for Stanford Medicine, earning buy-in at all levels of the organization as well as national recognition of Precision Health as an innovative approach to predicting, preventing, and curing disease. An expert in governance and managing culture change, Minor has

substantially enhanced organizational alignment and integration across Stanford Medicine. He initiated and led integrated strategic planning and is now leading institution-wide implementation.

Committed to fundamental discovery, Minor has enhanced support for the basic sciences and established an innovative faculty seed grant funding program for high-risk, high-reward projects. He has empowered PhD trainees by fully funding the first four years of their training, making Stanford Medicine a national model among PhD programs and leading to an increase in selectivity (11.3 percent in 2012 to 7.2 percent in 2019) as well as yield (51.6 percent in 2012 to 68.2 percent in 2019).

One of Minor's most significant accomplishments has been the recruitment and retention of outstanding faculty and leaders. He has appointed nine clinical chairs (five women and four men), served as co-chair for the search that selected David Entwistle as President and CEO of Stanford Health Care and for the search that selected Paul King as President and CEO of Stanford Children's Health. To enhance opportunities for leadership, Minor launched the Stanford Medicine Leadership Academy with a particular focus on women and underrepresented minorities.

Passionate about diversity and inclusion, Minor has significantly increased the number of underrepresented students and trainees at Stanford Medicine through expanded programming, outreach, and scholarships. Between 2012 and 2020, the number of incoming PhD students belonging to underrepresented minority groups has increased from 9.9 percent to 22.3 percent, and the number of incoming underrepresented MD students has increased from 14 percent to 37.8 percent. In 2020, the PhD entering class was 54.5 percent female.

To enhance diversity among faculty, Minor has worked with department leaders to increase accountability and transparency. Between 2012 to 2021, the number of female department chairs has increased from 14 percent to 47 percent (well above the national average of 20 percent), the number of women faculty has increased from 40.2 percent to 48.3 percent, and underrepresented faculty has increased from 5.6 percent to 6.6 percent.

EDUCATION AND TRAINING

1979	Sc.B.	Brown University (Biology)
1982	M.D.	Brown University
1982–1984	Resident	Duke University Medical Center, Department of Surgery
1984–1988	Research Fellow	University of Chicago, Department of Pharmacological and Physiological Sciences (Vestibular Neurophysiology), Supervisor Jay M. Goldberg, Ph.D.
1988–1992	Resident	University of Chicago Medical Center, Division of Otolaryngology–Head and Neck Surgery
1992–1993	Clinical Fellow	The Otology Group and The EAR Foundation; Nashville, TN (Otology and Neurotology)

PREVIOUS APPOINTMENTS

07/92–07/93	Clinical Instructor	Vanderbilt University School of Medicine, Department of Otolaryngology
08/93–06/97	Assistant Professor	Johns Hopkins University School of Medicine, Department of Otolaryngology–Head and Neck Surgery; The Johns Hopkins University, Department of Neuroscience (secondary appointment)
09/95–06/97	Assistant Professor	The Johns Hopkins University, Department of Biomedical Engineering (secondary appointment)
07/97–01/01	Associate Professor	Johns Hopkins University School of Medicine, Department of Otolaryngology–Head and Neck Surgery; The Johns Hopkins University, Departments of Neuroscience and Biomedical Engineering (secondary appointments)
02/01–08/12	Professor	Johns Hopkins University School of Medicine, Department of Otolaryngology–Head and Neck Surgery; The Johns Hopkins University, Departments of Neuroscience and Biomedical Engineering (secondary appointments)
09/02–10/03	John E. Bordley Professor	Johns Hopkins University School of Medicine, Department of Otolaryngology–Head and Neck Surgery
11/03–08/09	Andelot Professor and Director (Chair)	Johns Hopkins University School of Medicine, Department of Otolaryngology–Head and Neck Surgery
11/03–08/09	Otolaryngologist-in-Chief	The Johns Hopkins Hospital
09/09–08/12	Provost and Senior Vice President for Academic Affairs	The Johns Hopkins University
12/09–08/12	University Distinguished Service Professor	Johns Hopkins University School of Medicine, Department of Otolaryngology–Head and Neck Surgery

CORPORATE ADVISORY ACTIVITIES

aMoon
Ancestry.com
Change Healthcare
General Atlantic
Mammoth Biosciences

Mission Bio
Sensyne Health
Novartis (digital health, uncompensated,
advisor related to my role as Dean)
Thrive Global (uncompensated)

PUBLICATIONS

Articles

1. York, J.L., Miller, F.S., and Minor, L.B. (1980). Proton magnetic resonance study of the histidines in hemerythrin and chemical identification of the nonligand histidines. Biochemistry **19**: 2583-2588.
2. Rempel, R.S., Skinner, R.D., and Minor, L.B. (1980). Eighth nerve activation of cat pontine reticular neurons which project in or near the ascending medial longitudinal fasciculus. Experimental Neurology **70**: 706-711.
3. Rempel, R.S., Skinner, R.D., and Minor, L.B. (1981). Vestibular inputs to cat reticulo-MLF neurons. In Fuchs, A.F. and Becker, W. (eds.), Progress in Oculomotor Research. Amsterdam: Elsevier, 402-407.
4. Burchard, K.W., Minor, L.B., Slotman, G.J., and Gann, D.S. (1983). Fungal sepsis in surgical patients. Archives of Surgery **118**: 217-221.
5. Burchard, K.W., Minor, L.B., Slotman, G.J., and Gann, D.S. (1984). Staphylococcus epidermidis sepsis in surgical patients. Archives of Surgery **119**: 96-100.
6. Skinner, R.D., Rempel, R.S., and Minor, L.B. (1984). Monosynaptic activation of long descending propriospinal neurons from the lateral vestibular nucleus and the medial longitudinal fasciculus. Experimental Neurology **86**: 462-472.
7. Goldberg, J.M., Minor, L.B., and Fernández, C. (1988). The functional organization of the vestibular labyrinth and some of its central pathways. In Hwang, L.C., Daunton, N.G., and Wilson, V.J. (eds.), Basic and Applied Aspects of Vestibular Function. Hong Kong: Hong Kong University Press, 3-12.
8. Minor, L.B. and Goldberg, J.M. (1990). Influence of static head position on the horizontal nystagmus evoked by caloric, rotational and optokinetic stimulation in the squirrel monkey. Experimental Brain Research **82**: 1-13.
9. Minor, L.B., McCrea, R.A., and Goldberg, J.M. (1990). Dual projections of secondary vestibular axons in the medial longitudinal fasciculus to extraocular motor nuclei and the spinal cord of the squirrel monkey. Experimental Brain Research **83**: 9-21.
10. Minor, L.B. and Goldberg, J.M. (1991). Vestibular-nerve inputs to the vestibulo-ocular reflex: A functional-ablation study in the squirrel monkey. Journal of Neuroscience **11**: 1636-1648.
11. Glasscock, M.E. III, Hays, J.W., Minor, L.B., Haynes, D.S., and Carrasco, V.N. (1993). Preservation of hearing in surgery for acoustic neuromas. Journal of Neurosurgery **78**: 864-870.
12. Minor, L.B. and Panje, W.R. (1993). Malignant neoplasms of the scalp: Etiology, resection, and reconstruction. Otolaryngologic Clinics of North America **26**: 279-293.
13. Minor, L.B. (1994). Controversies in the management of glomus tumors of the temporal bone. Operative Techniques in Otolaryngology, Head and Neck Surgery **5**: 189-202.

14. Strasnick, B., Glasscock, M.E. III, Haynes, D., McMenemy, S.O., and Minor, L.B. (1994). The natural history of untreated acoustic neuromas. Laryngoscope 104: 1115-1119.
15. McMenemy, S.O., Glasscock, M.E. III, Minor, L.B., Jackson, C.G., and Strasnick, B. (1994). Facial nerve neuromas presenting as acoustic tumors. American Journal of Otology 15: 307-312.
16. Lysakowski, A., Minor, L.B., Fernández, C., Goldberg, J.M. (1995). Physiological identification of morphologically distinct afferent classes innervating the cristae ampullares of the squirrel monkey. Journal of Neurophysiology 73: 1270-1281.
17. Minor, L.B. (1995). Neuro-otology: Hearing. Current Opinion in Neurology 8: 89-94.
18. Backous, D.D., Minor, L.B., and Niparko, J.K. (1996). Trauma to the external auditory canal and temporal bone. Otolaryngologic Clinics of North America 29: 853-866.
19. Jackson, C.G., Dickins, J.R., McMenemy, S.O., Graham, S.S., Glasscock, M.E. III, Minor, L.B., and Strasnick, B. (1996). Endolymphatic system shunting: A long-term profile of the Denver Inner Ear Shunt. American Journal of Otology 17: 85-88.
20. Minor, L.B., Tomko, D.L., and Paige, G.D. (1997). Torsional eye movements evoked by unilateral labyrinthine polarizations in the squirrel monkey. In Fetter, M., et al. (eds.), Three Dimensional Kinematic Principles of Eye, Head, and Limb Movements in Health and Disease. Amsterdam: Harwood Academic Publishers, 161-170.
21. Minor, L.B. (1998). Physiological principles of vestibular function on earth and in space. Otolaryngology–Head and Neck Surgery 118: S5-S15.
22. Minor, L.B., Solomon, D., Zinreich, J.S., and Zee, D.S. (1998). Sound- and/or pressure-induced vertigo due to bone dehiscence of the superior semicircular canal. Archives of Otolaryngology–Head and Neck Surgery 124: 249-258.
23. Minor, L.B. (1998). Gentamicin-induced bilateral vestibular hypofunction. Journal of the American Medical Association 279: 541-544.
24. Backous, D.D., Minor, L.B., Aboujaoude, E.S., and Nager, G.T. (1999). Relationship of the utricle and saccule to the stapes footplate: Anatomic implications for sound- and/or pressure-induced otolith activations. Annals of Otology, Rhinology, and Laryngology 108: 548-553.
25. Gillespie, M.B. and Minor, L.B. (1999). Prognosis in bilateral vestibular hypofunction. Laryngoscope 109: 35-41.
26. Minor, L.B. (1999). Intratympanic gentamicin for control of vertigo in Ménière's disease: Vestibular signs that specify completion of therapy. American Journal of Otology 20: 209-219.
27. Haslwanter, T. and Minor, L.B. (1999). Nystagmus induced by circular head shaking in normal human subjects. Experimental Brain Research 124: 25-32.
28. Minor, L.B., Haslwanter, T., Straumann, D., and Zee, D.S. (1999). Hyperventilation-induced nystagmus in patients with vestibular schwannoma. Neurology 53: 2158-2168.

29. Minor, L.B., Lasker, D.M., Backous, D.D., and Hullar, T.E. (1999). Horizontal vestibuloocular reflex evoked by high-acceleration rotations in the squirrel monkey. I. Normal responses. Journal of Neurophysiology 82: 1254-1270.
30. Lasker, D.M., Backous, D.D., Lysakowski, A., Davis, G.L., and Minor, L.B. (1999). Horizontal vestibuloocular reflex evoked by high-acceleration rotations in the squirrel monkey. II. Responses after canal plugging. Journal of Neurophysiology 82: 1271-1285.
31. Hullar, T.E. and Minor, L.B. (1999). High-frequency dynamics of regularly discharging canal afferent provide a linear signal for angular vestibuloocular reflexes. Journal of Neurophysiology 82: 2000-2005.
32. Minor, L.B. (2000). Superior canal dehiscence syndrome. American Journal of Otology 21: 9-19.
33. Carey, J.P., Minor, L.B., and Nager, G.T. (2000). Dehiscence or thinning of bone overlying the superior semicircular canal in a temporal bone survey. Archives of Otolaryngology–Head and Neck Surgery 126: 137-147.
34. Lasker, D.M., Hullar, T.E., and Minor, L.B. (2000). Horizontal vestibuloocular reflex evoked by high-acceleration rotations in the squirrel monkey. III. Responses after labyrinthectomy. Journal of Neurophysiology 83: 2482-2496.
35. Hess, B.J., Lysakowski, A., Minor, L.B., and Angelaki, D.E. (2000). Central versus peripheral origin of vestibulo-ocular reflex recovery following semicircular canal plugging in rhesus monkeys. Journal of Neurophysiology 84: 3078-3082.
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41. Clendaniel, R.A., Lasker, D.M., and Minor, L.B. (2001). Horizontal vestibuloocular reflex evoked by high-acceleration rotations in the squirrel monkey. IV. Responses after spectacle-induced adaptation. Journal of Neurophysiology 86: 1594-1611.

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43. Armand, M., and Minor, L.B. (2001). Relationship between time- and frequency-domain analyses of angular head movements in the squirrel monkey. Journal of Computational Neuroscience **11**: 217-239.
44. Lasker, D.M., Ramat, S., Carey, J.P., and Minor, L.B. (2002). Vergence-mediated modulation of the human horizontal angular VOR provides evidence of pathway-specific changes in VOR dynamics. Annals New York Academy of Sciences **956**: 324-337.
45. Limb, C.J., Mabrie, D.C., Carey, J.P., and Minor, L.B. (2002). Hemangioma of the external auditory canal. Otolaryngology–Head and Neck Surgery **126**: 74-75.
46. Della Santina, C.C., Cremer, P.D., Carey, J.P., and Minor, L.B. (2002). Comparison of head thrust test with head autorotation test reveals that the vestibulo-ocular reflex is enhanced during voluntary head movements. Archives of Otolaryngology–Head and Neck Surgery **128**: 1044-1054.
47. Cullen, K.E. and Minor, L.B. (2002). Semicircular canal afferents similarly encode active and passive head-on-body rotations: Implications for the role of vestibular efference. Journal of Neuroscience **22**: RC226(1-7).
48. Clendaniel, R.A., Lasker, D.M., and Minor, L.B. (2002). Differential adaptation of linear and nonlinear components of the horizontal vestibuloocular reflex in squirrel monkeys. Journal of Neurophysiology **88**: 3534-3540.
49. Reti, I.M., Minor, L.B., and Baraban, J.M. (2002). Prominent expression of Narp in central vestibular pathways: Selective effect of labyrinth ablation. European Journal of Neuroscience **16**: 1949-1958.
50. Carey, J.P., Minor, L.B., Peng, G.C., Della Santina, C.C., Cremer, P.D., and Haslwanter, T. (2002). Changes in the three-dimensional angular vestibulo-ocular reflex following intratympanic gentamicin for Ménière's disease. Journal of the Association for Research in Otolaryngology **3**: 430-443.
51. Carey, J.P., Hirvonen, T.P., Peng, G.C., Della Santina, C.C., Cremer, P.D., Haslwanter, T., and Minor, L.B. (2002). Changes in the angular vestibulo-ocular reflex after a single dose of intratympanic gentamicin for Ménière's disease. Annals of the New York Academy of Sciences **956**: 581-584.
52. Lewis, R.F., Gong, W., Ramsey, M., Minor, L., Boyle, R., and Merfeld, D.M. (2002/2003). Vestibular adaptation studied with a prosthetic semicircular canal. Journal of Vestibular Research **12**: 87-94.
53. Minor, L.B., Carey, J.P., Cremer, P.D., Lustig, L.R., Streubel, S.O., and Ruckenstein, M.J. (2003). Dehiscence of bone overlying the superior canal as a cause of apparent conductive hearing loss. Otology & Neurotology **24**: 270-278.
54. Belden, C.J., Weg, N., Minor, L.B., and Zinreich, S.J. (2003). CT evaluation of bone dehiscence of the superior semicircular canal as a cause of sound- and/or pressure-induced vertigo. Radiology **226**: 337-343.

55. Hirvonen, T.P., Weg, N., Zinreich, S.J., and Minor, L.B. (2003). CT high-resolution findings suggest a developmental abnormality underlying superior canal dehiscence syndrome. Acta Otolaryngologica **123**: 477-481.
56. Wu, I.C. and Minor, L.B. (2003). Long-term hearing outcome in patients receiving intratympanic gentamicin for Ménière's disease. Laryngoscope **113**: 815-820.
57. Lustig, L.R., Yeagle, J., Niparko, J.K., and Minor, L.B. (2003). Cochlear implantation in patients with bilateral Ménière's syndrome. Otology & Neurotology **24**: 397-403.
58. Migliaccio, A.A., Cremer, P.D., Aw, S.T., Halmagyi, G.M., Curthoys, I.S., Minor, L.B., and Todd, M.J. (2003). Vergence-mediated changes in the axis of eye rotation during the human vestibulo-ocular reflex can occur independent of eye position. Experimental Brain Research **151**: 238-248.
59. Cox, K.M., Lee, D.J., Carey, J.P., and Minor, L.B. (2003). Dehiscence of bone overlying the superior semicircular canal as a cause of an air-bone gap on audiometry: A case study. American Journal of Audiology **12**: 11-16.
60. Minor, L.B. (2003). Labyrinthine fistulae: Pathobiology and management. Current Opinion in Otolaryngology–Head and Neck Surgery **11**: 340-346.
61. Peng, G.C., Zee, D.S., and Minor, L.B. (2004). Phase-plane analysis of gaze stabilization to high acceleration head thrusts: A continuum across normal subjects and patients with loss of vestibular function Journal of Neurophysiology **91**: 1763-1781.
62. Carey, J.P., Hirvonen, T.P., Hullar, T.E., and Minor, L.B. (2004). Acoustic responses of vestibular afferents in a model of superior canal dehiscence. Otology & Neurotology **25**: 345-352.
63. Minor, L.B., Schessel, D.A., and Carey, J.P. (2004). Ménière's disease. Current Opinion in Neurology **17**: 9-16.
64. Schubert, M.C. and Minor, L.B. (2004). Vestibulo-ocular physiology underlying vestibular hypofunction. Physical Therapy **84**: 373-385.
65. Migliaccio, A.A., Minor, L.B., and Carey, J.P. (2004). Vergence-mediated modulation of the human horizontal vestibulo-ocular reflex is eliminated by a partial peripheral gentamicin lesion. Experimental Brain Research **159**: 92-98.
66. Migliaccio, A.A., Schubert, M.D., Jiradjevong, P., Lasker, D.M., Clendaniel, R.A., and Minor, L.B. (2004). The three-dimensional vestibulo-ocular reflex evoked by high-acceleration rotations in the squirrel monkey. Experimental Brain Research **159**: 433-46.
67. Hirvonen, T.P., Minor, L.B., Hullar, T.E., and Carey, J.P. (2005). Effects of intratympanic gentamicin on vestibular afferents and hair cells in the chinchilla. Journal of Neurophysiology **93**: 643-655.
68. Migliaccio, A.A., MacDougall, H.G., Minor, L.B., Della Santina, C.C. (2005). Inexpensive system for real-time 3-dimensional video-oculography using a fluorescent marker array. Journal of Neuroscience Methods **143**: 141-150.

69. Peng, C.G., Minor, L.B., Zee, D.S. (2005). Gaze position corrective eye movements in normal subjects and in patients with vestibular deficits. Annals of the New York Academy of Sciences 1039: 337-348.
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73. Della Santina, C.C., Potyagaylo, V., Migliaccio, A.A., Minor, L.B., and Carey, J.P. (2005). Orientation of human semicircular canals measured by three-dimensional multi-planar CT reconstruction. Journal of the Association for Research in Otolaryngology 6: 191-206.
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otology: Meeting summary and research opportunities. Otolaryngology–Head and Neck Surgery 135: 361-367.

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Book

Minor, L. and Rees, M. (2020). [Discovering Precision Health: Predict, Prevent, and Cure to Advance Health and Well-Being](#). United Kingdom: Wiley-Blackwell.

Textbooks

Lustig, L.R. and Niparko, J.K. (eds.), Minor, L.B. and Zee, D.S. (associate eds.). (2003). Clinical Neurotology: Diagnosing and Managing Disorders of Hearing, Balance and the Facial Nerve. United Kingdom: Taylor & Francis.

Gulya, A.J., Minor, L.B., and Poe, D.S. (eds.). (2010). Glasscock-Shambaugh Surgery of the Ear, 6th edition. Shelton, Connecticut: People's Medical Publishing House.

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Book Chapters

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2. Panje, W.R., and Minor, L.B. (1995). Reconstruction of the scalp. In Baker, S.R., and Swanson, N.A. (eds.), Local Flaps in Facial Reconstruction. St. Louis: Mosby Year Book, 481-516.
3. Minor, L.B., and Zee, D.S. (1998). Evaluation of the patient with dizziness. In Cummings, C.W., et al. (eds.), Otolaryngology–Head and Neck Surgery, 3rd edition. Chicago: Mosby Year Book, 2623-2671.
4. Schessel, D.A., Minor, L.B., and Nedzelski, J.M. (1998). Ménière’s disease and other peripheral vestibular disorders. In Cummings, C.W. et al. (eds.), Otolaryngology–Head and Neck Surgery, 3rd edition. Chicago: Mosby Year Book, 2672-2705.
5. Carey, J.P. and Minor, L.B. (2000). Disorders that affect central and peripheral vestibular function. In Goebel, J.P. (ed.), Practical Management of the Dizzy Patient. Philadelphia: Lippincott Williams & Wilkins, 237-258.
6. Hullar, T.E. and Minor, L.B. (2002). Vestibular physiology and disorders of the labyrinth. In Gulya, A.J. and Glasscock, M.E. III (eds.), Surgery of the Ear, 5th edition. Toronto: B.C. Decker Inc., 83-103.
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10. Hullar, T.E. and Minor, L.B. (2004). The neurotologic exam. In Jackler, R.K., and Brackmann, D.E. (eds.), Textbook of Neurotology, 2nd edition. Chicago: Mosby Year Book, 215-227.
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17. Friedland, D.R. and Minor, L.B. (2009). Ménière's disease, vestibular neuritis, benign paroxysmal positional vertigo, superior semicircular canal dehiscence, and vestibular migraine. In Snow, J.B. and Wackym, P.A. (eds.), Ballenger's Otorhinolaryngology Head and Neck Surgery, 17th edition. People's Medical Press, 313-332.
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24. Crane, B.T., Carey, J.P., and Minor, L.B. (2010). Surgical treatment of peripheral vestibular disorders. In Gulya, A.J., Minor, L.B., and Poe, D.S. (eds.), Glasscock-Shambaugh, Surgery of the Ear, 6th edition. Shelton, Connecticut: People's Medical Publishing House, 563-581.
25. Minor, L.B., and Johns, Michael M.E. (2016). Medical education: One size does not fit all. In Paté-Cornell, E., Rouse, W.B., and Vest, C.M. (eds.), Perspectives on Complex Global Challenges: Education, Energy, Healthcare, Security and Resilience. Hoboken, NJ: John Wiley & Sons, Inc., 117-119.

Case Report

Crane, B.T., Carey, J.P., McMenemy, S., and Minor, L.B. (2010). Meningioma causing superior canal dehiscence syndrome. *Otology & Neurotology* 31: 1009-1010.

GRANT SUPPORT

Principal Investigator

Date	Title	Direct Costs	Source
07/84–06/87	Differential Responses of Secondary Vestibular Neurons	\$60,000	Individual National Research Service Award, NIH (PHS F32 NSO7560)
07/87–06/88	Primary Vestibular Afferent Inputs to Central Pathways Mediating the Vestibulo-Ocular Reflex	\$22,000	Space Biology Research Associate Award, NASA
07/87–06/88	Vestibular Afferent Inputs to Secondary Neurons	\$25,000	Research Grant for Pilot Studies, NIH (R03 EYO7209)
01/94–12/95	Vestibular Physiology Compensation		Ross Clinician Scientist Award, Johns Hopkins University School of Medicine
07/94–06/95	Physiology of Processes Mediating Compensation to Vestibular Injury	\$23,500	American Otological Society Grant
07/94–06/97	Vestibular-Nerve Inputs to Linear Vestibulo-ocular Reflexes	\$55,000	NASA Joint Research Interchange
12/94–08/95	Physiology of Vestibular Compensation	\$75,000	Clinician Investigator Development Award, NIH (K08, DC00106)
09/95–08/00	Otolith-Ocular Reflexes: Physiology Adaptive Control	\$281,796	Project on the Johns Hopkins University Research Training Center for Hearing and Balance, NIH (P60 DC00979)
09/95–08/00	Physiology of Vestibular Compensation	\$812,859	NIH (R01 DC002390)
07/98–06/00	Vestibular Function in Ménière's Disease and Effects of Intratympanic Gentamicin	\$66,584	American Otological Society Grant

07/00–06/01	Effects of Intratympanic Gentamicin on Vestibular Function	\$35,051	American Otological Society Grant
09/00–08/05	Physiology of Vestibular Compensation	\$1,175,000	NIH (R01 DC002390, years 6-10)
04/02–03/05	Evaluation of Vestibular Function in Ménière's Disease	\$750,000	NIH (R01 DC05040, years 1-3)
07/04–06/09	Research Training in Otolaryngology	\$1,028,445	NIH (T32 DC00027, years 16-20)
09/05–03/12*	Physiology of Vestibular Compensation	\$1,661,780	NIH (R01 DC002390, years 11-15)

Competing renewal for Years 16–20 of R01 DC002390 was funded for 5 years effective 04/12. PI on competing renewal was C.C. Della Santina. L.B. Minor was a consultant on the grant. Competing renewal for Years 21–25 has been funded for 5 years effective 05/18. PI on this most recent renewal is K.E. Cullen.

06/09	Physiology of Vestibular Compensation	\$175,727	Administrative supplement, NIH (R01 DC002390)
07/09–06/14**	Research Training in Otolaryngology	\$1,063,928	NIH (T32 DC00027, years 21-25)

*C.C. Della Santina became PI when L.B. Minor became Provost of Johns Hopkins University in 09/09.
 **P.A. Fuchs became PI when L.B. Minor became Provost of Johns Hopkins University in 09/09.

Co-Investigator

Date	Title	Direct Costs	Source
09/95–08/00	Vestibulo-ocular Reflex (VOR) Adaptation in Human Patients	\$35,200	D.S. Zee, PI; Project on the Johns Hopkins University Research Training Center for Hearing and Balance, NIH (P60 DC00979)
10/97–12/02	Context-specific Adaptation of Gravity-dependent Vestibular Reflex Responses	\$100,000	M. J. Shelhamer, PI; National Space Biomedical Research Institute, Neurovestibular Adaptation Team
09/03–08/05	Role of Vestibular Cortex in SCD Subjects using fMRI	\$31,761	G.D. Kaufman, PI (University of Texas Medical Branch, Galveston); NIH (R21 DC006056, years 1-2)
04/05–03/10	Evaluation of Vestibular Function In Ménière's Disease	\$1,360,951	J.P. Carey, PI; NIH (R01 DC05040, years 4-8)

TEACHING

Classroom Instruction

Physiological Foundations for Biomedical Engineering

Johns Hopkins University, Department of Biomedical Engineering

Taught the laboratory session on motor control for this undergraduate course (one-hour pre-lab and one-hour post-lab lecture to four classes and supervised five sections of the three-hour laboratory session), 1995–2003

Structure and Function of the Auditory and Vestibular Systems

Johns Hopkins University, Department of Biomedical Engineering

Organized the vestibular system curriculum for this two-semester graduate course offered in alternate years, 1998–2002, and gave lectures in the course, 2002–2012

Core Course on Neuroscience

Johns Hopkins University School of Medicine Course

Lectured on the vestibular system each spring, 1999–2012

Grand Rounds and Clinical Lecture Series

Johns Hopkins University School of Medicine, Department of Otolaryngology–Head and Neck Surgery

Lectured on the pathophysiology of disorders of the vestibular system and the inner ear (four, one-hour lectures per year)

Temporal Bone Dissection Laboratory

Johns Hopkins University School of Medicine, Department of Otolaryngology–Head and Neck Surgery

Directed the laboratory session on labyrinthectomy, middle cranial fossa approach, and facial nerve dissection

American Board of Otolaryngology

Oral examination for certification

Guest Examiner, 2002, 2003; Senior Examiner, 2004–2008

Resident Education

Stanford University, Department of Otolaryngology–Head and Neck Surgery

Lectured on the vestibular system, 03/14, 11/14, and 11/15 and participated in the temporal bone dissection laboratory, 02/15

SOMGEN 275: Leadership and Strategies for Health Care Delivery Innovation

Stanford University, School of Medicine

Led session on “Leading Academic Medical Centers to Achieve High Value Care”, 11/14

NBIO 206: The Nervous System

Stanford University, Department of Neurobiology

Lectured on the vestibular system, 02/15, 02/16, 02/17, 03/18, and 02/19

MED 73N: Scientific Method and Bias

Stanford University, Department of Medicine

Co-Instructor (with John P.A. Ioannidis) of undergraduate seminar, 01/16–03/16

NEPR 212: Responsible Conduct of Neuroscience Research

Stanford University, Department of Neuroscience

Co-lead session on contemporary issues in biomedical research and the social impacts of scientific research, 03/16

GSBGEN 551: Innovation and Management in Health Care

Stanford Graduate School of Business

Participated in panel on the future of health care, 03/16, 03/17, 03/18, and 02/19

GSB Executive Education: The Innovative Health Care Leader

Stanford Graduate School of Business

Led session on “Leading the Precision Health Revolution: An Expanded Role for Academic Medicine”, 05/16

SURG 72Q: Anatomy in Society

Stanford University

Led session on the vestibular system, 01/17 and 01/18

MED 10Q/RELIGST 10Q: Literature, Medicine, and Empathy

Stanford University

Co-Instructor (with the Rev. Professor Jane Shaw) of undergraduate seminar, 01/18–03/18

Clinical Instruction

Supervised residents and fellows in the outpatient clinic and operating room and provided instruction on otology and neurotology

CME Instruction

1. Lecturer, “Clinical Aspects and Diagnostic Testing in Ménière’s Syndrome”, “Ménière’s Medical Management Including Intratympanic Gentamicin”, and “Basic Principles of Vestibular Adaption: Physiology”; and course instructor, “Clinical Management of Common Auditory and Vestibular Disorders”, Center for Hearing and Balance at Johns Hopkins University, 03/12/97–03/14/97
2. Course organizer and instructor, “Superior Canal Dehiscence Syndrome”, annual meetings of the American Academy of Otolaryngology–Head and Neck Surgery, 09/00, 09/01, 09/05, 09/06, and 09/07
3. Lecture on Ménière’s disease and other peripheral vestibular abnormalities, Topics in Clinical Medicine Course at the Johns Hopkins University School of Medicine, 05/01/05 and 05/05/05
4. Instructor in the Temporal Bone Dissection Course, Department of Otolaryngology, University of Michigan, 04/24/02–04/25/02

5. Special Guest Faculty, Stanford Otolaryngology & Neurotology Update 2004; lecture topics: “Vestibular Physiology Demystified”, “Superior Semicircular Canal Dehiscence Syndrome”, and “How I Examine the Dizzy Patient”, 11/04/04–11/06/04
6. Guest Faculty, The Ultimate Colorado Mid-Winter Meeting: An Otolaryngology Update and the Colorado Otolaryngology–Audiology Conference; Vail, Colorado; lecture topics: “Superior Semicircular Canal Dehiscence Syndrome” and “Symposium on Ménière’s Disease”, 01/28/07–02/01/07
7. Panelist, Surgical Partitioning of the Labyrinth, Program of the 42nd Annual Spring Meeting of the American Neurotology Society; San Diego, California, 04/27/07–04/28/07
8. Lecturer, “Ion Channels and Inner Ear Disorders”, Fall Scientific Program of the American Neurotology Society; Washington, DC, 09/07
9. Course organizer and instructor, “Advances in Diagnostic Modalities for Vestibular Disorders” annual meeting of the American Academy of Otolaryngology–Head and Neck Surgery, 09/07
10. Guest Faculty, Otolaryngology Update in New York City; lecture topics: “Making the Diagnosis of Superior Semicircular Canal Syndrome” and “In-Office Transtympanic Therapies”, 10/25/07–10/26/07
11. Guest Faculty, The Ultimate Colorado Mid-Winter Meeting: An Otolaryngology Update and The Colorado Otolaryngology–Audiology Conference; Vail, Colorado; lecture topic: “Vestibular Compensation”, 01/08
12. Guest Faculty, XXV Bárány Society Meeting; teaching session: What do I need to know to become a neurotologist; lecture topic: “What do I need to know about the ear?”, Kyoto, Japan, 01/08
13. Guest Faculty, Update in Otolaryngology and Otologic Surgery, Harvard Medical School and Massachusetts Eye and Ear Infirmary; lecture topics: “Vestibular Testing: When is it Helpful? When is it Not?” and “Dehiscence of the Superior Semicircular Canal”, 06/10/10–06/12/10

MENTORING

Research Trainees

Douglas D. Backous, M.D., 07/95–06/97, Postdoctoral Fellow, supported by fellowship training grant from the American Otological Society (07/95–06/96)

Current position: Neurotologist at Swedish Health Services in Seattle, Washington

Timothy E. Hullar, M.D., 07/97–06/99, Postdoctoral Fellow, supported by the Resident Research Training Grant in the Department of Otolaryngology–Head and Neck Surgery at Johns Hopkins University School of Medicine (NIH, T32 DC00027); resident research grant from the American Academy of Otolaryngology–Head and Neck Surgery (07/99–06/00): “Rotational Responses of Irregularly Firing Vestibular-Nerve Afferents”; research award from the Triological Society (07/02–06/03): “Information Transfer by Vestibular-Nerve Afferents”

Current position: Professor, Department of Otolaryngology–Head and Neck Surgery, Oregon Health & Science University School of Medicine

Richard A. Clendaniel, Ph.D., 09/97–06/05, Clinician-Scientist Trainee, supported by a Mentored Clinician-Scientist Development Award, National Institute on Deafness and Other Communication Disorders (K08 DC00150)

Current position: Assistant Professor and Director of Physical Therapy Division, Department of Community and Family Medicine, Duke University Medical Center

John P. Carey, M.D., 07/98–06/00, Postdoctoral Fellow, supported by the Research Training Center Grant in Hearing and Balance at Johns Hopkins University (NIH, P60 DC00979); research grant from the American Hearing Research Foundation (01/99–12/00): “Acoustic Responses of Vestibular Afferents: Implications for Superior Semicircular Canal Dehiscence Syndrome”; Mentored Patient-Oriented Research Career Development Award (12/00–11/05), National Institute on Deafness and Other Communication Disorders (K23 DC00196)

Current position: Professor and Director of the Division of Otology, Neurotology, and Skull Base Surgery, Department of Otolaryngology–Head and Neck Surgery, Johns Hopkins University School of Medicine

Mehran Armand, Ph.D., 06/99–09/00, Research Fellow, supported by the National Space Biomedical Research Institute

Current position: Principal Scientific Staff, Applied Physics Laboratory, Johns Hopkins University

Phillip D. Cremer, M.D., Ph.D., 02/99–04/00, Postdoctoral Fellow, supported by the Garnett Passe and Rodney Williams Memorial Foundation and by the Bushell Travelling Fellowship of the Royal Australasian College of Physicians

Current position: Neurologist and Director of the Vertigo and Neurotology Clinic, Royal North Shore Hospital in Sydney, Australia

Charles C. Della Santina, M.D., Ph.D., 01/99–06/99, Resident Research Fellow, clinician scientist training award from the American Otological Society (07/02–06/03); Richard S. Ross clinician scientist award from the Johns Hopkins University School of Medicine; Mentored Clinician-Scientist Development Award (07/03–06/08), National Institute on Deafness and Other Communication Disorders (K08 DC006216)

Current position: Professor and Director of the Vestibular NeuroEngineering Laboratory, Department of Otolaryngology–Head and Neck Surgery, Johns Hopkins University School of Medicine

Sven-Olrik Streubel, M.D., 07/99–06/01, Postdoctoral Fellow, supported by the Resident Research Training Grant in the Department of Otolaryngology–Head and Neck Surgery at Johns Hopkins University School of Medicine (NIH, T32 DC00027); Mallinckrodt Resident Research Award for the top-scoring resident research proposal (06/00): “Investigation of the Three-Dimensional Vesibulo-ocular Reflex”

Current position: Associate Professor, Department of Otolaryngology–Head and Neck Surgery, University of Colorado Health Sciences Campus

Iee Ching Wu Anderson, 07/00–06/01, Medical student research project: “Hearing outcome following intratympanic gentamicin”; recipient of a Denison Medical Student Research Award from the Johns Hopkins University School of Medicine

Current position: Deceased (previously Instructor, Department of Otolaryngology–Head and Neck Surgery, Massachusetts Eye and Ear Infirmary and Harvard Medical School)

El-Saied Thabet, M.D., 05/00–04/02, Postdoctoral Fellow, supported by the government of Egypt for studies in clinical vestibular assessment

Current position: Neuro-otologist in Cairo, Egypt

Timo P. Hirvonen, M.D., Ph.D., 08/00–06/02, Postdoctoral Fellow, supported by research grants from the government of Finland and by the Research Fund of the American Otological Society

Current position: Chief Physician, Helsinki University Central Hospital

Americo Migliaccio, Ph.D., 02/02–12/03, Postdoctoral Fellow, supported by a postdoctoral fellowship grant from Advanced Bionics, Inc.

Current position: Associate Professor and Head of Balance and Vision Laboratory, Neuroscience Research Australia

Michael Schubert, Ph.D., 08/02–11/04, Postdoctoral Fellow, supported by the Resident Research Training Grant in the Department of Otolaryngology–Head and Neck Surgery at Johns Hopkins University School of Medicine (NIH, T32 DC00023)

Current position: Associate Professor, Department of Otolaryngology–Head and Neck Surgery, Johns Hopkins University School of Medicine

Hong Ju Park, M.D., 05/03–11/04, Postdoctoral Fellow, supported by Seoul National University College of Medicine

Current position: Associate Professor, Department of Otolaryngology–Head and Neck Surgery, Konkuk University School of Medicine, South Korea

Gyu Cheol Han, M.D., 03/05–08/07, Postdoctoral Fellow, supported by Gachon Medical School, South Korea

Current position: Associate Professor, Department of Otolaryngology, Gachon University of Medicine and Science, Gil Medical Center in Incheon, South Korea

Miriam S. Welgampola, M.D., Ph.D., 08/06–02/07, Postdoctoral Fellow, supported by the Garnett Passe and Rodney Williams Memorial Foundation of Australia

Current position: Associate Professor, University of Sydney School of Medicine in Sydney, Australia

Kyu-Sung Kim, M.D., 08/06–07/07, Postdoctoral Fellow, supported by Inha University College of Medicine

Current position: Assistant Professor, Department of Otorhinolaryngology–Head and Neck Surgery, Inha University College of Medicine in Incheon, South Korea

Benjamin T. Crane, M.D., Ph.D., 07/07–06/09, Resident in Neurotology in the Department of Otolaryngology–Head and Neck Surgery at Johns Hopkins University School of Medicine
Current position: Professor, Department of Otolaryngology–Head and Neck Surgery, University of Rochester School of Medicine

Munetaka Ushio, M.D., 01/08–12/09, Postdoctoral Fellow from the University of Tokyo
Current position: Assistant Professor, Department of Otolaryngology–Head and Neck Surgery, Tokyo University School of Medicine

Jae-Ho Ban, M.D., Ph.D., 07/08–06/09, Postdoctoral Fellow from Kangbuk Samsung Medical Center in Seoul, Korea

Current position: Deceased (previously Associate Professor, Department of Otolaryngology, Kangbuk Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Korea)

Clinical Fellows in Otology and Neurotology

Drew Horlbeck, M.D., 07/99–06/01

Current position: Otolaryngologist, Division of Pediatric Otolaryngology, Department of Surgery, Nemours Hospital in Jacksonville, Florida

Yael Raz, M.D., 01/02–06/02

Current position: Assistant Professor, Department of Otolaryngology–Head and Neck Surgery, Oregon Health & Science University School of Medicine

David Friedland, M.D., Ph.D., 07/01–06/02

Current position: Professor, Vice-Chair, and Chief of the Division of Otology and Neuro-otologic Skull Base Surgery and of the Division of Research, Department of Otolaryngology and Communication Sciences, Medical College of Wisconsin

Daniel J. Lee, M.D., 07/01–06/02

Current position: Associate Professor and Director of Pediatric Otology and Neurotology, Department of Otology and Laryngology, Harvard Medical School and Massachusetts Eye and Ear Infirmary

Timothy E. Hullar, M.D., 01/03–07/03

Current position: Professor, Department of Otolaryngology–Head and Neck Surgery, Oregon Health & Science University School of Medicine

Charles J. Limb, M.D., 01/03–07/03

Current position: Francis A. Sooy, M.D., Professor, Chief of Otology, Neurotology, and Skull Base Surgery, and Director of the Douglas Grant Cochlear Implant Center, Department of Otolaryngology–Head and Neck Surgery, University of California, San Francisco School of Medicine

Charles-André Haenggeli, M.D., 07/01–06/03

Current position: Otolaryngologist, Department of Otolaryngology, University of Geneva

Benjamin T. Crane, M.D., Ph.D., 07/07–06/09

Current position: Professor, Department of Otolaryngology–Head and Neck Surgery, University of Rochester School of Medicine

C. Matthew Stewart, M.D., Ph.D., 07/08–06/10

Current position: Associate Professor, Department of Otolaryngology–Head and Neck Surgery, Johns Hopkins University School of Medicine

Training Grants, Investigator

“Training Program in Auditory Neurophysiology”, Department of Biomedical Engineering, Johns Hopkins University (NIH T32 DC00023), 07/00–08/12

“Neuroscience Training Program”, Department of Neuroscience, Johns Hopkins University (NIH T32 MH20062), 07/99–08/12

“Research Training in Otolaryngology”, Department of Otolaryngology–Head and Neck Surgery, Johns Hopkins University School of Medicine (NIH T32 DC00027), 07/99–06/04

“Research Training in Otolaryngology”, Department of Otolaryngology–Head and Neck Surgery, Johns Hopkins University School of Medicine (NIH T32 DC00027), 07/04–08/12

EDITORIAL ACTIVITIES

Editorial Board Member

Otology & Neurotology (1993–present)

Journal of Vestibular Research (1996–1998)

Otolaryngology–Head and Neck Surgery (1997–2003)

Experimental Brain Research (2001–2018)

Audiology & Neuro-Otology (2002–2011; associate editor in 2005–2011)

Annals of Otology, Rhinology, and Laryngology (2004–2005)

Invited Reviewer

Acta Otolaryngologica

Annals of Neurology

Annals of Otology, Rhinology, and Laryngology

Archives of Otolaryngology–Head and Neck Surgery

Brain Research

Clinical Neurophysiology

Ear & Hearing

Hearing Research

Journal of the Association for Research in Otolaryngology

Journal of Neurophysiology

Journal of Neuroscience

Laryngoscope

Nature

Neurology

CLINICAL ACTIVITIES

Physician and Surgeon, State of California, Certificate no. G89226

Physician and Surgeon, State of Maryland, Certificate no. D44437

Diplomate, National Board of Medical Examiners, Certificate no. 262073, 07/83

Diplomate, American Board of Otolaryngology, 03/93

Subspecialty Certificate in Neurotology, American Board of Otolaryngology, Certificate no. 4196, 05/25/04–06/30/14. Passed the 2012 American Board of Otolaryngology Maintenance of Certification Part III examination, Neurotology certificate is valid from 06/30/14–06/30/24.

ORGANIZATIONAL ACTIVITIES

Institutional Administrative Appointments

1. Clinical Efficiency Committee, Department of Otolaryngology–Head and Neck Surgery, Johns Hopkins University School of Medicine, 01/98–12/99
2. Director, Laboratory of Vestibular Neurophysiology, Department of Otolaryngology–Head and Neck Surgery, Johns Hopkins University School of Medicine, 07/97–08/12
3. Director, Fellowship Training Program in Otology and Neurotology, Department of Otolaryngology–Head and Neck Surgery, Johns Hopkins University School of Medicine, 07/99–06/03
4. Representative from the Department of Otolaryngology–Head and Neck Surgery to the Johns Hopkins Joint Committee on Clinical Investigation for Protocol Re-review, 07/01–06/03
5. Performance Improvement Officer for the Department of Otolaryngology–Head and Neck Surgery, 04/02–10/03
6. Member, Search Committee for the Directorship of the Department of Ophthalmology at the Johns Hopkins University School of Medicine, 07/02–02/03
7. Member, Search Committee for the Directorship of the Department of Anesthesiology and Critical Care Medicine at the Johns Hopkins University School of Medicine, 04/03–09/03
8. Chair, Practice Management Committee, Clinical Practice Association, Johns Hopkins University School of Medicine, 08/05–09/09
9. Member, Agenda Committee of the Advisory Board of the Medical Faculty for the Johns Hopkins University School of Medicine, 09/05–06/08
10. Member, Professorial Promotions Committee, Johns Hopkins University School of Medicine, 09/05–08/09
11. Chair, Search Committee for Director of the Department of Biomedical Engineering, Johns Hopkins University School of Medicine, 12/05–02/07

12. Member, Board of Governors of the Clinical Practice Association of the Johns Hopkins University School of Medicine, 07/06–08/09
13. Member, Standing Committee on Discipline of the Johns Hopkins University School of Medicine, 06/07–08/09
14. Chair, Administrative Committee of the Medical Board, Johns Hopkins Hospital, 07/08–08/09
15. Chair, Search Committee for the Dean of the Krieger School of Arts and Sciences of Johns Hopkins University, 10/09–04/10
16. Chair, Search Committee for the Dean of the School of Education of Johns Hopkins University, 10/09–05/10
17. Advisor to the Search Committee for the Director of the Johns Hopkins Applied Physics Laboratory, 02/10–06/10
18. Co-Chair, Search Committee for the Dean of the Johns Hopkins University School of Medicine and CEO of Johns Hopkins Medicine, 06/11–12/11
19. Chair, Search Committee for the Dean of Carey Business School of Johns Hopkins University, 06/11–05/12
20. Chair, Search Committee for the Dean of the Paul H. Nitze School of Advanced International Studies (SAIS) of Johns Hopkins University, 10/11–03/12
21. Stanford Health Care Board of Directors, 12/12–present
22. Lucile Packard Children’s Hospital Stanford Board of Directors, 12/12–present
23. Lucile Packard Foundation for Children’s Health Board of Directors, 12/12–present
24. Stanford Health Care–ValleyCare Board of Directors, 09/14–09/17
25. Co-Chair (with Chair of Stanford Health Care Board of Directors), Search Committee for the President and CEO of Stanford Health Care, 10/15–14/16
26. Member, Search Committee for the President and CEO of Lucile Packard Foundation for Children’s Health, 12/17–06/18
27. Co-Chair, Search Committee for the President and CEO of Lucile Packard Children’s Hospital Stanford, 03/18–11/18

Membership in Professional Societies

American Academy of Otolaryngology–Head and Neck Surgery, Fellow
 American College of Surgeons, Fellow (Inducted 10/98)
 Bárány Society

Association for Research in Otolaryngology
Society for Neuroscience
American Neurotology Society
American Otological Society (Inducted 05/01)
Collegium Oto-Rhino-Laryngologicum Amicitiae Sacrum (Elected 2004)
Triological Society (Inducted 05/05)

Committee Membership and Leadership Positions in Professional Societies

Program Committee, Association for Research in Otolaryngology, 02/00–02/04
Award of Merit Committee, Association for Research in Otolaryngology, 02/03–02/06
President, Association for Research in Otolaryngology, 03/05–02/06
Executive Secretary, Research Fund of the American Otological Society, 04/03–06/09
Member, Review Committee for Otolaryngology, Accreditation Council on Graduate Medical Education, 08/10–06/16

Conference Organizer, Session Chair

1. Course Co-Director, “Clinical Management of Common Auditory and Vestibular Disorders”, Johns Hopkins Medical Institutions, 03/12/97–03/14/97
2. Chair of the session: “Vestibular Compensation and Adaptive Plasticity”, Conference on Vestibular Influences on Spatial Orientation, Society for the Neural Control of Movement; Princeville, Hawaii, 04/16/99–04/19/99
3. Chair of the session: “Superior Canal Dehiscence Syndrome”, XXIIth Meeting of the Bárány Society; Seattle, Washington, 09/26/02–09/29/02
4. Course Organizer, “Vestibular System 101: Introduction to vestibular system structure and function for non-experts”, Association for Research in Otolaryngology Short Course, 02/22/03
5. Chair, Workshop on Electrical Stimulation of the Vestibular Nerve sponsored by the National Institute on Deafness and Other Communication Disorders, 06/03/04–06/04/04
6. Chair, Presidential Symposium: “Vestibular Mechanisms: Achieving Balance in the Ear”, Twenty-Ninth Annual Meeting of the Association for Research in Otolaryngology, 02/05/06
7. Chair, Symposium on Superior Semicircular Canal Dehiscence Syndrome, Twenty-Fourth Bárány Society Meeting; Uppsala, Sweden, 06/11/06–06/14/06
8. Chair, Section on Vestibular Function and Balance Disorders, NIDCD Workshop on Clinical Research and Clinical Trials in Otology: Setting the Research Agenda for Development of an Intervention; Bethesda, Maryland, 05/09/07–05/10/07
9. Chair, Roundtable Session on Controversies in the Treatment of Ménière’s disease, 6th European Congress of Oto-Rhino-Laryngology Head and Neck Surgery; Vienna, Austria, 06/30/07–07/04/07

10. Co-Chair, Symposium 1: Ménière and Related Diseases, XXV Bárány Society Meeting; Kyoto, Japan, 03/31/07–04/03/07
11. Co-Chair, Scientific Session 3: Vestibular Problems II, *Collegium Oto-Rhino-Laryngologicum Amicitiae Sacrum*; Berlin, Germany, 08/24/08–08/27/08
12. Moderator, Section II: Vestibular Topics, 44th Meeting of the American Neurotology Society; Phoenix, Arizona, 05/29/09–05/30/09
13. Moderator, Panel 2: Diagnosis and Treatment of Vestibular Disorders: Recent Advances and Future Directions, 142nd Meeting of the American Otological Society; Phoenix, Arizona, 05/29/09–05/30/09
14. Moderator, Panel on “Quality/Cost/Efficiency”, Society of University Otolaryngologists; Washington, DC, 11/07/09
15. Moderator, Panel on “Tensions and Conflicts Created by Decreasing Financial Resources for Academic Medicine”, Society of University Otolaryngologists; Sedona, Arizona, 11/13/10
16. Co-Chair of Roundtable, “Training in otology, what the future holds”, IFOS (International Federation of Oto-Rhino-Laryngological Societies) ENT World Congress; Paris, 06/26/17
17. Chair of Controversy, “Semicircular canal dehiscence”, IFOS (International Federation of Oto-Rhino-Laryngological Societies) ENT World Congress; Paris, 06/27/17
18. Chair of Symposium, “Semi-circular canal dehiscence syndrome”, IFOS (International Federation of Oto-Rhino-Laryngological Societies) ENT World Congress; Paris, 06/28/17
19. Conference Organizer, EHR National Symposium; Stanford, California, 06/04/18

Advisory Committees, Review Groups

1. Member, Behavioral and Neurosciences Special Emphasis Panel to review R03 applications, National Institute on Deafness and Other Communication Disorders, 06/95–06/96
2. Member, Behavioral and Neurosciences Special Emphasis Panel of the Hearing Research Study Section, National Institutes of Health, 12/95
3. Member, Programs Advisory Committee, National Institute on Deafness and Other Communication Disorders, 05/97–10/98
4. Chair, National Institute on Deafness and Other Communication Disorders Special Emphasis Panel, 07/98
5. Member, NASA Life Sciences Peer Review Panel for Developmental Biology (Flight- and Ground-Based Programs), 02/00
6. *Ad hoc* Reviewer, IFCN-5 Study Section of the National Institutes of Health, 02/00

7. Member, National Institute on Deafness and Other Communication Disorders Special Emphasis Panel for review of R03 applications, 03/00
8. Member, Special Emphasis Panel of NIH IFCN-6 Study Section for Review of Small Business Research Initiative applications, 12/99 and 04/00
9. Member, Subcommittee on Grants and Prizes, American Academy of Otolaryngology Head and Neck Surgery (first term: 01/00–06/02; appointed to second term: 07/02–06/05)
10. Member, Program Committee, Association for Research in Otolaryngology, 02/00–02/03
11. Member, National Institute on Deafness and Other Communication Disorders Special Emphasis Panel to Review R03 applications, 07/00
12. *Ad hoc* Reviewer, National Institutes of Health, Communication Disorders Review Committee, 06/01
13. *Ad hoc* Reviewer, National Institutes of Health, Communication Disorders Review Committee, 02/02
14. Member, Scientific Review Committee, Deafness Research Foundation, appointed for three-year term beginning 2002
15. Chair, Special Emphasis Panel, Integrative, Functional, and Cognitive Neuroscience Study Section, Group 4 (IFCN4), 08/02
16. Member, Scientific Review Group, Research Fund of the American Otological Society, appointed in 2002, Chair of the Scientific Review Group and Secretary-Treasurer of the Research Fund beginning in 2004
17. Member, National Institutes of Health Integrative, Functional, and Cognitive Neuroscience Study Section, Group 6 (IFCN6), term began with the meeting in 10/00
18. Chair, National Institutes of Health: Auditory Study Section (AUD: formerly referred to as Integrative, Functional, and Cognitive Neuroscience Study Section, Group 6), 10/03–06/05
19. Member, External Advisory Committee, Eye and Ear Research Foundation of the University of Pittsburgh Medical Center, 05/04
20. Member, External Advisory Committee appointed by the Dean of the Harvard Medical School to evaluate the Department of Otolaryngology at the Harvard Medical School, 06/04
21. Member, Advisory Panel, NASA Clinical Status Evaluation (CSE) Neurological Function Workshop, 12/04
22. Member, External Advisory Committee, Eye and Ear Research Foundation of the University of Pittsburgh Medical Center, 03/06
23. Member, Special Emphasis Panel, AUD Study Section of National Institutes of Health, 06/06

24. Member, Special Emphasis Panel to review Temporal Bone Consortium, National Institute on Deafness and Other Communication Disorders, 06/06
25. Member, External Advisory Committee appointed by the Dean of the Medical University of South Carolina to evaluate the Department of Otolaryngology–Head and Neck Surgery at the Medical University of South Carolina, 11/06
26. Member, Blue Ribbon Advisory Panel to the Deafness Research Foundation for Review of a Research Consortium on Regeneration Biology as Applied to the Inner Ear, 04/07
27. Chair, Special Emphasis Panel, IFCN-B for Auditory Neuroscience Study Section, Center for Scientific Review, National Institutes of Health, 10/07
28. Member, External Advisory Committee appointed by the Dean of Medicine of the University of Michigan School of Medicine to evaluate the Department of Otolaryngology–Head and Neck Surgery at the University of Michigan, 11/07
29. Member, External Advisory Committee appointed by the Baylor College of Medicine to evaluate the Department of Otolaryngology–Head and Neck Surgery at the Baylor College of Medicine, 04/08
30. Member, External Advisory Committee, Eye and Ear Research Foundation of the University of Pittsburgh Medical Center, 05/08
31. Chair, Special Emphasis Panel, IFCN-M for Member Conflicts: Physiology and Modeling, Center for Scientific Review, National Institutes of Health, 06/08
32. Member, Study Section for Member Conflicts of the Communication Disorders Review Committee, National Institutes of Health, 10/08
33. Member, Study Section for Member Conflicts of the Sensory Neurophysiology Study Sections (ZRG1 IFCN-C), National Institutes of Health, 04/09
34. Member, Study Section for Member Conflicts (ZRG1 IFCN E 03 M), National Institutes of Health, 06/10 and 01/11
35. Member, Study Section for Translational Grant Applications, National Institute on Deafness and Other Communication Disorders, 02/11
36. Member, Brown Medical School Committee, Brown University, 09/11–09/14
37. Member, The Blue Ridge Academic Health Group, 10/17–present

AWARDS AND HONORS

Ross Clinician Scientist Award, Johns Hopkins University School of Medicine, support from 01/94–12/95

Recognized in “Top Docs” edition of *Baltimore Magazine*, November 1997, Otolaryngology/Dizziness

Young Investigator Award, Bárány Society, 1998

Nicholas Torok Vestibular Award, American Neurotology Society, 1999

Descriptions of work in the identification of the superior canal dehiscence syndrome have been published and described in the *Los Angeles Times* (02/22/99); *New Scientist* (02/27/99); *Hopkins Medical News* (Spring–Summer 1999); *Physician’s Practice Digest* (May/June 1999); *ABC News Primetime Medical Mysteries* (03/14/08); *BBC* (07/27/11); *NBC News* (08/04/11); *Scientific American* (09/01/11); interviews with Sirius/XM Channel 110 Doctor Radio Live (with Dr. Sean McMenomey) (01/13/16 and 05/16/18) and WHYYY station in Philadelphia (03/14/16); and *Stanford Medicine* magazine (Fall 2016)

Honor Award, American Academy of Otolaryngology–Head and Neck Surgery, 2001

Hallpike-Nylén Prize, Bárány Society, 2006

Recognized in *America’s Top Doctors*, Castle Connolly Ltd., Listed in the 2nd through the 8th editions, 2002–10

Gold Medal, Prosper Ménière Society, 2010

Elected to the National Academy of Medicine (formerly the Institute of Medicine) of the National Academies of Sciences, Engineering, and Medicine, 2012

Elected to Alpha Omega Alpha Honor Medical Society, 2014

Leadership Award, National Hispanic Health Foundation, 2015

Joseph Toynbee Memorial Medal, Royal Society of Medicine in London and the Royal College of Surgeons of England (the highest honor the British otological community confers), 2015

Rambam Award, Rambam Health Care Campus in Haifa, Israel (for contributions to medicine, science, technology, leadership, and humanity), 2019

Albert C. Muse Prize in Medicine, Ear and Eye Foundation of Pittsburgh, 2019

Shambaugh Prize, Corlas, 2021

INVITED TALKS

1. “Vestibular-nerve Inputs to the Vestibulo-ocular Reflex”, Division of Otolaryngology and Laryngology, Harvard University School of Medicine and Massachusetts Eye and Ear Infirmary, 06/91
2. “Vestibular-nerve Inputs to the Vestibulo-ocular Reflex: A Behavioral and Electrophysiological Study”, Division of Otolaryngology–Head and Neck Surgery, Stanford University Medical Center, 01/92
3. “Vestibular-nerve Inputs to the Vestibulo-ocular Reflex: A Behavioral and Electrophysiological Study”, Department of Otolaryngology–Head and Neck Surgery, Johns Hopkins University School of Medicine, 03/92

4. “Vestibular-nerve Inputs to the Vestibulo-ocular Reflex: A Behavioral and Electrophysiological Study”, Department of Otolaryngology–Head and Neck Surgery, University of Michigan School of Medicine, 03/92
5. “Distinguishing Translational from Tilt Responses”, NASA Ames Research Center, 06/94
6. “Nonlinearities in Vestibulo-ocular Responses Following Unilateral Vestibular Deafferentation”, Center for Hearing and Balance, Johns Hopkins University School of Medicine, 01/96
7. “Signal Processing in the Vestibulo-ocular Reflex: From Vestibular-nerve afferents to the Oculomotor Plant”, Department of Otolaryngology and Communication Sciences, Department of Neuroscience, Baylor College of Medicine, 04/96
8. “Control of Balance on Earth and in Space”, Vestibular Dysfunction: Lessons and Legacies from Space, Symposium sponsored by the American Neurotology Society, American Academy of Otolaryngology–Head and Neck Surgery, and NASA, 09/96
9. “Tullio’s Phenomenon due to Dehiscence of the Superior Semicircular Canal”, Bobby R. Alford Department of Otolaryngology and Communication Sciences, Baylor College of Medicine, 01/97
10. “High-frequency Dynamics of the Horizontal Vestibulo-ocular Reflex”, Department of Neuroscience, Baylor College of Medicine, 11/97
11. “Dynamics of the Vestibulo-ocular Reflex in Response to High-Frequency, High-Acceleration Rotations” and “Sound- and/or Pressure-Induced Vertigo Due to Bone Dehiscence of the Superior Semicircular Canal”, Division of Otolaryngology–Head and Neck Surgery, University of Mississippi School of Medicine, 03/98
12. “Dynamics of the Horizontal Vestibulo-ocular Reflex Evoked by High-Frequency, High-Acceleration Rotations”, Laboratory of Sensorimotor Research, National Eye Institute, 04/98
13. “Intratympanic Gentamicin for Control of Vertigo in Ménière’s Disease” and “Superior Canal Dehiscence Syndrome”, Department of Otolaryngology, Universidad de Navarra; Pamplona, Spain, 04/98
14. “Vertigo in Patients with Dehiscence of Bone Overlying the Superior Semicircular Canal”, Department of Neurology, University of Zürich, 07/98
15. “Dynamics of the Vestibulo-ocular Reflex in Response to High-frequency, High-acceleration Rotations”, Department of Physiology, McGill University, 10/98
16. “Dynamics of the Vestibulo-ocular Reflex in Response to High-frequency, High-acceleration Rotations”, Bodian Seminar in the Zanvyl Krieger Mind/Brain Institute, Johns Hopkins University, 01/99

17. “Intratympanic Gentamicin for Control of Vertigo in Patients with Unilateral Ménière’s Disease” and “The Superior Canal Dehiscence Syndrome”, J. Floyd Kyser Otolaryngology Distinguished Lectureship, Department of Otolaryngology–Head and Neck Surgery, University of Arkansas for Medical Sciences, 06/99
18. “The Superior Canal Dehiscence Syndrome”, Otoneurology ’99 International Symposium in Florence, Italy sponsored by the Università Degli Studi di Firenze and Università Degli Studi di Pavia, 07/99
19. “Physiological Mechanisms Responsible for Asymmetries in the Vestibulo-ocular Reflex after Unilateral Vestibular Lesions”, “The Superior Canal Dehiscence Syndrome”, and “Intratympanic Gentamicin for Control of Vertigo in Patients with Unilateral Ménière’s Disease”, invited guest speaker at the annual meeting of the Neuro-otology Society of Australia in Sydney, 11/99
20. “Dynamics of the Vestibulo-ocular Reflex Evoked by High-Frequency, High-Acceleration Rotations”, Department of Physiology and Biophysics, Mt. Sinai School of Medicine, 01/00
21. “Bedside Testing of the Patient with Dizziness”, Clinical Symposium, Association for Research in Otolaryngology, 23rd Midwinter Meeting; St. Petersburg Beach, Florida, 02/00
22. “Pitfalls in the Assessment of Patients with Dizziness” and “Differentiation between Central and Peripheral Vertigo”, 25th Middle East Medical Assembly, The American University of Beirut; Lebanon, 05/00
23. “Superior Semicircular Canal Dehiscence Syndrome”, Department of Otolaryngology, University of Athens, 05/00
24. “Superior Canal Dehiscence Syndrome”, 21st Meeting of the Bárány Society; Uppsala, Sweden, 06/00
25. “Superior Canal Dehiscence Syndrome”, Grand Rounds, Department of Neurology, Case Western Reserve University; Cleveland, Ohio, 10/00
26. “Linear and Nonlinear Pathways Mediating Angular Vestibulo-ocular Reflexes”, Department of Neurology, Royal Prince Alfred Hospital and Department of Psychology, University of Sydney; Australia, 12/00
27. “Superior Canal Dehiscence Syndrome” and “Effects of labyrinthine lesions on the Vestibulo-ocular reflex”, Visiting Professor, Department of Otolaryngology–Head and Neck Surgery, University of California, San Francisco, 01/01
28. “Superior Canal Dehiscence Syndrome”, Division of Otolaryngology, UMDNJ—New Jersey Medical School, 02/01
29. “Neural Substrates for Linear and Nonlinear Pathways Involved in Control of the Angular Vestibulo-ocular Reflex”, invited speaker in the symposium entitled, “The Vestibular Periphery as a Model System: Genetics, Sensory Encoding & Regeneration”, 24th Annual Midwinter Meeting of the Association for Research in Otolaryngology; St. Petersburg Beach, Florida, 02/01

30. “Linear and Nonlinear Pathways Mediate the Angular VOR Evoked by High-frequency, High-acceleration Rotations”, invited speaker at the symposium on “The Vestibular and Oculomotor Systems: Basic Mechanisms and Clinical Applications”; Secon, Germany, 03/01
31. “Evaluation of Vestibular Function in Ménière’s Disease”, Ben Senturia Lecture, Department of Otolaryngology–Head and Neck Surgery, Washington University School of Medicine, 09/01
32. “Neural Pathways Responsible for Gaze Stability During Rapid Head Movements: Afferent Physiology and the Vestibulo-ocular Reflex”, speaker in the session entitled, “Vestibuloocular Reflex Dynamics: A Model System from Slices to Neural Circuits to Behavior”, Twelfth Annual Meeting of the Neural Control of Movement Society; Naples, Florida, 04/02
33. “Superior Canal Dehiscence Syndrome”, Grand Rounds, Department of Otolaryngology, University of Michigan, 04/02
34. “Neural Pathways Responsible for Gaze Stability During Rapid Head Movements”, Kresge Hearing Research Institute, University of Michigan, 04/02
35. “Evaluation of Vestibular Function in Ménière’s Disease”, invited guest speaker at the Second Annual Faculty Research Day, Department of Otolaryngology, the University of Texas Medical Branch, 05/02
36. “Complementary Interactions Between Basic and Clinical Research in the Vestibular System”, XXIIth Meeting of the Bárány Society; Seattle, Washington, 09/02
37. “Auditory Manifestations of Superior Canal Dehiscence Syndrome”, Meeting of the International Tinnitus Forum in conjunction with the annual meeting of the American Academy of Otolaryngology–Head and Neck Surgery, 09/02
38. “Asymmetries in the Angular Vestibulo-ocular Reflex after Lesions of the Labyrinth”, Virginia Merrill Bloedel Hearing Research Center and Department of Otolaryngology–Head and Neck Surgery, University of Washington School of Medicine, 09/02
39. “Asymmetries in the Vestibulo-ocular Reflex following Vestibular Lesions”, Department of Neurology and Department of Physiology and Biophysics, Mt. Sinai School of Medicine, 12/02
40. “Disorders of the Vestibular System: Integrating Basic Mechanisms with Clinical Entities”, Short Course at the 26th Annual Midwinter Meeting of the Association for Research in Otolaryngology entitled “Vestibular System 101: Introduction to Vestibular System Structure and Function for Non-Experts”, 02/03
41. “Advances in Application of Vestibular Research to Clinical Practice”, Workshop at the 26th Annual Midwinter Meeting of the Association for Research in Otolaryngology entitled “Vestibular System Problems: Righting the Balance”, 02/03
42. “Responses of Vestibular-Nerve Afferents to High Frequency Head Movements”, Speaker in the session entitled, “Motor Control in Mice: Methodological Problems and Preliminary Data in Normal and Mutant Animals”, Thirteenth Annual Meeting of the Neural Control of Movement Society; Santa Barbara, California, 04/03

43. “Use of Intratympanic Steroids”, speaker in the session entitled, “Panel on Vestibular Disorders”, One Hundred and Thirty-Sixth Annual Meeting of the American Otological Society; Nashville, Tennessee, 04/03
44. “Angular Vestibulo-ocular Reflex Evoked by High-Frequency, High-Acceleration Rotations”, Laboratoire de Neurobiologie des Réseaux Sensori-moteurs, CNRS, Université René Descartes (Paris 5); Paris, 06/03
45. “Superior Semicircular Canal Dehiscence Syndrome”, ENT Department, Lariboisiere Hospital; Paris, 06/03
46. “Angular Vestibulo-ocular Reflex Evoked by High-Frequency, High-Acceleration Rotations”, Department of Otolaryngology–Head and Neck Surgery and Neuroscience Program, University of California at Davis, 07/03
47. “Evaluation of the Patient with Dizziness”, Sacramento ENT Society; Sacramento, California, 07/03
48. “Superior Semicircular Canal Dehiscence Syndrome”, Division of Otolaryngology–Head and Neck Surgery, University of California, San Diego, 10/03
49. “Superior Semicircular Canal Dehiscence Syndrome” and “Evaluation of the Patient with Dizziness”, Department of Otolaryngology–Head and Neck Surgery, University of Pittsburgh School of Medicine, 10/03
50. “Superior Semicircular Canal Dehiscence Syndrome” and “Evaluation of the Patient with Dizziness”, 10th Annual Maxwell Abramson Lecturer, Department of Otolaryngology–Head and Neck Surgery, College of Physicians and Surgeons, Columbia University, 06/04
51. “Superior Semicircular Canal Dehiscence Syndrome”, XXIII Meeting of the Bárány Society; Paris, 07/04
52. “Mechanisms of Vestibular Compensation” and “Recent Advances in the Treatment of Ménière’s disease, Department of Otolaryngology–Head and Neck Surgery, University of California at San Francisco, 11/04
53. “Evaluation of the Patient with Dizziness”, Translational Research Lecture, American Auditory Society 2005 Meeting, 03/05
54. “Update on Clinical Vestibular Physiology”, XXIX Annual Meeting of the Nordic ENT Association, 06/05
55. “Evaluation of the Patient with Dizziness” and “Superior Semicircular Canal Dehiscence Syndrome”, 13th Annual G. Douglas Hayden Otology Symposium, Department of Otolaryngology–Head and Neck Surgery, Virginia Commonwealth University, 06/05
56. “Update on Clinical Vestibular Physiology”, Dr. David Cyr Memorial Lecture, Boys Town National Research Hospital, 07/05

57. “Superior Semicircular Canal Dehiscence Syndrome: Clinical Manifestations and Basic Mechanisms”, Meeting in Honor of Dr. Bernhard J.M. Hess, Department of Neurology, University of Zürich, 07/05
58. “Adaptive Properties of the Vestibulo-ocular Reflex”, Department of Psychology and Program in Neuroscience, Seoul National University; Korea, 10/05
59. “The Head Thrust Sign: Clinical Manifestations and Basic Mechanisms”, 25th Politzer Society Meeting, Seoul, Korea, 10/05
60. “Superior Semicircular Canal Dehiscence Syndrome”, Department of Otorhinolaryngology, Fudan University; Shanghai, 10/05
61. “Superior Semicircular Canal Dehiscence Syndrome”, Ninth Annual McNally Memorial Lecture, Department of Otolaryngology, McGill University and Royal Victoria Hospital; Montreal, Canada, 10/05
62. “Basic and Clinical Research: Models of Success”, Conference on Research Education and Training in Otolaryngology sponsored by the American Academy of Otolaryngology–Head and Neck Surgery Foundation; Arlington, Virginia, 11/05
63. “Superior Canal Dehiscence Syndrome”, ‘La vertigine frequente’: II filo di Arianna nel labirinto della vestibologia”; Cassino, Italy, 12/05
64. “Mechanisms of attacks of vertigo in Ménière’s disease” and “Ménière’s disease and Migraine”, Hospital C.U.F. Infante Santo’s 6th Otolaryngology Meeting; Lisbon, Portugal, 02/06
65. “Superior Semicircular Canal Dehiscence Syndrome”, Session on “Brainstem Symptoms and Deficits of Oculomotor Control”, satellite symposium to the 16th Meeting of the Neural Control of Movement Society: “Neural Control of Abnormal Movement”; Key Biscayne, Florida, 04/06
66. “Superior Semicircular Canal Dehiscence Syndrome” and “Advances in the Diagnosis and Treatment of Ménière’s Disease”, 27th John Daley Day Visiting Professor, Department of Otolaryngology–Head and Neck Surgery, New York University Medical Center, 06/06
67. “How I Evaluate the Dizzy Patient” and “Superior Semicircular Canal Dehiscence Syndrome”, 12th British Academic Conference in Otolaryngology; Birmingham, England, 07/06. These presentations led to a feature article in ENT News (Minor, L.B. Superior semicircular canal dehiscence syndrome. ENT News 15: 68-69)
68. “Ménière’s Disease: Update on Aetiology and Treatment” and “Sensorineural Hearing Loss: Advances in Our Understanding of the Aetiology and Improved Treatment Options”, Frontiers in Otorhinolaryngology 2006, The Garnett Passe and Rodney Williams Memorial Foundation; Queensland, Australia, 07/06
69. “Superior Semicircular Canal Dehiscence Syndrome”, Metro Atlanta Otolaryngology Society and Department of Otolaryngology–Head and Neck Surgery at Emory University School of Medicine, 10/06

70. “Sensorineural Hearing Loss”, “Facial Nerve Dysfunction”, “Management of Acoustic Neuromas”, and “Superior Semicircular Canal Dehiscence Syndrome”, Hospital C.U.F. Infante Santo’s 7th Otolaryngology Meeting; Lisbon, Portugal, 04/07
71. “Information Encoded in the Responses of Vestibular-Nerve Afferents to Motion: What Does the Brainstem ‘Hear’ from the Labyrinth?” Presentation in the Satellite Symposium to the 17th Meeting of the Neural Control of Movement Society; Carmona, Spain. Title of the satellite symposium: “Neural Basis of Motor Learning and Performance: From Cell to Function”, 03/07
72. “Round Table Discussion of Modern Imaging in Otology and Neurotology”, 6th European Congress of Oto-Rhino-Laryngology Head and Neck Surgery; Vienna, 07/07
73. “Superior Canal Dehiscence Syndrome”, Keynote Lecture in Otology, 6th European Congress of Oto-Rhino-Laryngology Head and Neck Surgery; Vienna, 07/07
74. “Information Encoded in the Responses of Vestibular-Nerve Afferents to Motion: What Does the Brainstem ‘Hear’ from the Labyrinth? ”, Laboratoire de Neurobiologie des Réseaux Sensori-moteurs, CNRS, Université René Descartes (Paris 5); Paris, 07/07
75. “Update on Superior Semicircular Canal Dehiscence Syndrome” ENT Department, Lariboisiere Hospital; Paris, 07/07
76. “Vestibular Research: From Bench to Bedside”, research seminar in the course entitled, “Biology of the Inner Ear: Experimental and Analytical Approaches”, Marine Biological Laboratory; Woods Hole, Massachusetts, 08/07
77. “Superior Canal Dehiscence”, Presentation to the 31st Annual Congress and Nursing Symposium of the Society of Otorhinolaryngology and Head-Neck Nurses; Washington, DC, 09/07
78. “Navigating the Labyrinth of the Inner Ear: Achieving “Balance” as a Clinician Scientist”. Dean’s Lecture at the Johns Hopkins University School of Medicine, 03/08
79. “Navigating the Labyrinth of the Inner Ear: Vertigo and Hearing Loss Due to Superior Semicircular Canal Dehiscence Syndrome”, Eighth Annual Fernandez-Lindsay Lecture, Section of Otolaryngology, Department of Surgery, University of Chicago, 05/08
80. “Studies of Vestibular Function: Understanding and Treating Disorders of the Sixth Sense”, Department of Otolaryngology, 29th Morris S. Bender Lecture, Long Island Jewish Medical Center, 06/08
81. “Navigating the Labyrinth of the Inner Ear: Vertigo and Hearing Loss Due to Superior Semicircular Canal Dehiscence Syndrome”, Clinica Las Condes, Santiago, Chile, 07/08
82. “Ménière’s Disease”, Presentation to the Cincinnati ENT Society, 10/08
83. “Superior Canal Dehiscence Syndrome”, Grand rounds in the Department of Otolaryngology at the University of Cincinnati, 10/08

84. “Learning and Plasticity in the Vestibular System: The Physiology of Vestibular Compensation”, Grand Rounds in the Department of Neurology, Johns Hopkins University School of Medicine, 09/08
85. “Neurophysiology of the Vestibular System” Grand Rounds for the Intramural Branch of the National Institute on Deafness and Other Communication Disorders; Bethesda, Maryland, 12/08
86. “Diagnosis and Treatment of Ménière’s Disease”, Grand Rounds in the Department of Medicine, Johns Hopkins University School of Medicine, 02/09
87. “Learning and Plasticity in the Balance System: The Physiology of Vestibular Compensation” David Tomlinson Lecture, Department of Otolaryngology–Head and Neck Surgery, University of Toronto, 03/09
88. “Evaluation of the Patient with Dizziness”, “Benign Paroxysmal Positional Vertigo”, “Superior Semicircular Canal Dehiscence Syndrome”, “Treatment Options for Acoustic Neuroma”, “Update on the Diagnosis and Treatment of Ménière’s Disease” 27th Alexandria International Combined ORL Congress; Alexandria, Egypt, 04/09
89. “Learning and Plasticity in the Balance System: The Physiology of Vestibular Compensation” Mind-Brain Institute, The Johns Hopkins University, 04/09
90. “Superior Semicircular Canal Dehiscence Syndrome” and “Evaluation of the Patient with Dizziness” Elbyrne G. Gill Lectures, Virginia Society of Otolaryngology–Head and Neck Surgery, The Homestead; Virginia, 04/09
91. “Learning and Plasticity in the Balance System: The Physiology of Vestibular Compensation”, Fifth Annual Research Day, Department of Otolaryngology–Head and Neck Surgery, University Hospital Case Medical Center; Cleveland, Ohio, 05/09
92. “Abnormal Pressure Transmission in the Inner Ear due to Superior Semicircular Canal Dehiscence”, Round table discussion: Ménière’s disease – Inner ear pressure regulation out of control. 80th Annual Meeting of the German Ear, Nose, and Throat Society; Rostock, Germany, 05/09
93. “The Future of Innovation and Discovery in Neurotology”, William F. House Lecture, 44th Spring Meeting of the American Neurotology Society; Phoenix, Arizona, 05/09
94. “Superior Semicircular Canal Dehiscence Syndrome” and “Update on the Treatment of Ménière’s Disease”, J. Floyd Kyser, M.D. Distinguished Lecture, Department of Otolaryngology–Head and Neck Surgery, University of Arkansas for Medical Sciences, 06/09
95. “Superior Canal Dehiscence Syndrome”, Invited talk at symposium on The Future of Otolaryngology & Neurotology, Silverstein Institute and Ear Research Foundation; Sarasota, Florida, 01/10
96. “International Trends in the Evolution of Health Care Delivery and Financing: From Bismarck to Beveridge to ‘The Blues’”, Keynote speaker, Prosper Ménière Society: 14th International Symposium and Workshop on Inner Ear Medicine and Surgery, 03/10
97. “Superior Semicircular Canal Dehiscence Syndrome”, Invited talk at the 28th Annual Otolaryngology Scientific Forum, Wayne State University, 04/10

98. “Higher and Healthier Education for a New Era”, Ruth B. Sauber Lecture, Brown University, 05/10
99. “Discovery and Innovation: Lessons Learned from Superior Canal Dehiscence Syndrome”, 2010 Otolaryngology Research Forum, University of Rochester, 06/10
100. “Bismarck, Beveridge, and the Blues”, John L. Kemink Memorial Lecture, and “Diagnosis and Treatment of Vestibular Disorders”, 26th Annual Summer Meeting of the Michigan Otolaryngological Society, 07/10
101. “Unidirectional Rotations in Macaques Produce Asymmetric Changes in Gain of the Horizontal VOR Before and After Unilateral Labyrinthectomy”, The Vestibular System: Current Research and Future Directions, Satellite Symposium to the 26th Bárány Society Meeting in Honor of Jay Goldberg, 08/10
102. “International Trends in Health Care Delivery and Financing: Bismarck, Beveridge, and the Blues”, Plenary session talk at the *Collegium Oto-Rhino-Laryngologicum Amicitiae Sacrum*, Budapest, Hungary, 08/10
103. “Bismarck, Beveridge, and the Blues”, Invited speaker at the Bologna, Italy Campus of the Paul H. Nitze School of Advanced International Studies (SAIS), Johns Hopkins University, 10/10
104. “Advances in the Diagnosis and Treatment of Vestibular Disorders”, Hôpital Américain de Paris: The Best of ORL 2010; Paris, 10/10
105. “Diversity and Inclusion: Fulfilling the Promise of Johns Hopkins”, Seventh Annual Diversity Conference of Johns Hopkins University; Baltimore, 11/10
106. “Mechanisms of Adaptive Plasticity in the Vestibulo-ocular Reflex after Unilateral Loss of Labyrinthine Function”, Department of Psychological and Brain Sciences, Krieger School of Arts and Sciences, Johns Hopkins University, 12/10
107. “At What Cost: Charting the Future of the American Research University”, Address at the Paul H. Nitze School of Advanced International Studies (SAIS), Johns Hopkins University; Washington, D.C., 03/11
108. “The Academic Medical Center in the Era of Accountability”, Johns Hopkins Bayview Medical Center Leadership Seminar Series; Baltimore, 06/11
109. “The Three C’s of Innovation: Combination, Collaboration, and Chance”, Johns Hopkins Applied Physics Laboratory; Laurel, Maryland 06/11
110. “Superior Semicircular Canal Dehiscence Syndrome”, Michael E. Glasscock, III Lecture, Department of Otolaryngology, Vanderbilt University School of Medicine, 10/11
111. “Gilman’s Legacy: Ph.D. Education and the Making of the Modern University”, Johns Hopkins University Conference on the Future of Ph.D. Education; Baltimore, 10/11
112. “Moving Academic Medicine Forward: From Medicine to Health”, Medical Grand Rounds, Johns Hopkins University School of Medicine, 11/11

113. “Launching Pads, Not Hurdles” and “Promoting the Science of Learning”, Johns Hopkins University Gateway Sciences Initiative Symposium on Teaching Excellence; Baltimore, 01/12
114. “The Social Determinants of Health”, Provost’s Symposium on the Social Determinants of Health, 05/12
115. “Innovation and Creativity in Scientific Research”, Moving Academic Medicine Forward: A Conference in Honor of Edward D. Miller, M.D., 06/12
116. “Using Technology to Enhance Physician Lifelong Learning”, Blue Ridge Academic Health Group Annual Meeting, 08/12
117. “Complexity as a Driver of Innovation and Discovery: Lessons Learned from the Vestibular System”, Department of Otolaryngology–Head and Neck Surgery Grand Rounds, Stanford University School of Medicine, 10/12
118. “Treatment of Vestibular Disorders”, Stanford Otolaryngology Course, 11/12 and 11/14
119. “Transforming Patient Care Through Innovation”, San Francisco Surgical Society, 03/13
120. “Navigating the Labyrinth of the Inner Ear: Achieving ‘Balance’ as a Clinician Scientist”, Stanford Bio-X Seminar Series, 06/13
121. “Master Class on Leadership”, Stanford Medicine X, 09/13, 09/14, 09/15, and 09/17
122. “External Forces and Internal Dynamics affecting Medical Schools in their Relations with the Rest of their University”, FRESH-Thinking Workshop on Reforming Medical Education, Stanford Institute for Economic Policy Research (SIEPR), 10/13
123. “The Academic Medical Center in the Century of Biomedicine”, 8th Sino-US Symposium on Medicine in the 21st Century; Shanghai, 11/13
124. “Superior Canal Dehiscence Syndrome”, UCSF Otolaryngology Update Course, 11/13
125. “The Academic Medical Center in the Century of Biomedicine”, UCSF Otolaryngology Update Course, 11/13
126. “The Academic Medical Center in the Century of Biomedicine”, Department of Otolaryngology–Head and Neck Surgery Grand Rounds, Northwestern University Feinberg School of Medicine, 02/14
127. “ACGME’s Next Accreditation System for Otolaryngology Programs”, Department of Otolaryngology–Head and Neck Surgery Grand Rounds, Stanford University School of Medicine, 03/14
128. “The Academic Medical Center in the Century of Biomedicine”, Oracle Industry Connect, 03/14
129. “Principles of Leadership in Academic Medicine”, Stanford Executive Briefings, 05/14

130. “Acute Vestibular Syndromes”, Department of Emergency Medicine Grand Rounds, Stanford University School of Medicine, 05/14
131. “Neurotology Under the Affordable Care Act: What We Can Expect”, American Neurotology Society, 05/14
132. “The Academic Medical Center in the Century of Biomedicine”, Polish Academy of Sciences International Conference; Warsaw, Poland, 06/14
133. “Principles of Leadership in Academic Medicine”, Polish Academy of Sciences International Conference; Warsaw, Poland, 06/14
134. “My Principles for Leadership in Academic Medicine”, Department of Otolaryngology–Head and Neck Surgery Graduation, University of Minnesota School of Medicine, 06/14
135. “Leading the Biomedical Revolution: The Expanded Role of Academic Medical Centers”, *Collegium Oto-Rhino-Laryngologicum Amicitiae Sacrum*, Istanbul, 08/14
136. “The Role of Academic Medicine in a Transforming Health Care Environment”, California Healthcare Institute, 11/14
137. “AMC 2.0: Alignment-Driven Innovation”, Inaugural Lloyd B. Minor, M.D., Lecture at Johns Hopkins University, 02/15
138. “Leading the Biomedical Revolution in Precision Health: How Stanford Medicine Is Developing The Next Generation Of Health Care”, World Medicine Summit; Macau and Chinese Medical Association Conference; Chongqing, 07/15
139. “Leading the Biomedical Revolution in Precision Health: How Stanford Medicine Is Developing the Next Generation of Health Care”, H. Bryan Neel III, M.D., Ph.D., Distinguished Research Lecture, American Academy of Otolaryngology–Head and Neck Surgery Foundation Annual Meeting; Dallas, 09/15
140. “From Little Rock to Leadership: Answering the Clarion Call for Diversity”, UC Davis Pre-Medical and Pre-Health Professions Conference, 10/15
141. “My Innovation Journey: From Lab to Leadership”, Joseph Toynbee Memorial Lecture, Royal Society of Medicine in London, 11/15
142. “Navigating Complexity and Change: Principles of Leadership”, King’s College London, 11/15
143. “The Search for Cures Leads to Silicon Valley” panel, Milken Institute Global Conference; Los Angeles, 05/16
144. “Precision Health vs. Precision Medicine”, National Institute of Nursing Research Boot Camp on “Precision Health: From ‘Omics’ to Data Science”; Bethesda, Maryland, 07/16
145. “Empowering Patients and Caregivers in the Digital Revolution”, World Health Summit; Berlin, 10/16

146. “The Indispensable Role of Academic Medical Centers”, Peking University–Stanford Joint Forum on “Building World-Class Universities: An Institutional Perspective”; Beijing, 11/16
147. “New Frontiers in Preventive Medicine: From Faster Cures to Faster Health” panel, Partnering for Cures; New York City, 11/16
148. “Finding Superior Canal Dehiscence Syndrome”, Michael E Glasscock, III, MD Symposium in Otolology and Neurotology; Nashville, 11/16
149. “Introduction and Strategies of Precision Health”, Association of Academic Health Centers (AAHC) Annual Research Meeting; Washington, D.C., 12/16
150. “Implications of Precision Health”, Conley Symposium on Humanity and Medicine; Baltimore, 12/16
151. “In Search of Precision Health” Panel, *Fortune* Brainstorm Health; San Diego, 05/17
152. “Lloyd B. Minor, MD Fireside Chat with *Bloomberg’s* Caroline Chen”, BIO International Convention; San Diego, California, 06/17
153. “WellMD: Creating an Organizational Foundation for Joy in Medicine”, Blue Ridge Academic Health Group; Sea Island, Georgia, 06/17
154. “Science and Fundraising”, George C. Marshall Symposium; Austria, 07/17
155. “Precision Health: To Predict, Prevent, and Cure — Precisely”, Sheba Medical Center; Israel, 07/17
156. “Vestibular Efferents”, research seminar in the course entitled, “Biology of the Inner Ear: Experimental and Analytical Approaches”, Marine Biological Laboratory; Woods Hole, Massachusetts, 08/17
157. “Are Data and Analytics the New Medicine?” Panel, Royal College of Physicians; London, 09/17
158. Precision Health: Predict, Prevent, and Cure Precisely”, “From the Laboratory to the Clinic: Immune-Tissue Cell Interactions” Conference; Oxford, England, 09/17
159. “The Changing Landscape of Philanthropy: Impact on Biomedical Research”, Vizient University Health System Consortium CEO Executive Board Meeting; Denver, 09/17
160. “Lloyd B. Minor, MD Keynote Interview with David Crow, *Financial Times* Senior US Business Correspondent”, FT Digital Health Summit; New York, New York, 10/17
161. “An Action Agenda: How Organizations are Promoting Joy in Practice” Panel, American Conference on Physician Health; San Francisco, 10/17
162. “Turning Data into Action” Panel, Rock Health Summit; San Francisco, 10/17
163. “10 Things I Know to Be True”, Google Talk; Mountain View, California, 10/17

164. “P4C Unplugged with Mike Milken”, Partnering for Cures; San Francisco, 11/17
165. “Superior Canal Dehiscence Syndrome”, Stanford University Department of Medicine Grand Rounds; Stanford, California, 01/18
166. “Three Challenges that will Define our Future” Panel, J.P. Morgan Healthcare Conference; San Francisco, 01/18
167. “From Bench to Boardroom: Perspectives on Commercializing Research in Otolaryngology”, Association for Research in Otolaryngology Presidential Symposium; San Diego, 02/18
168. “In Defense of Science” Panel, *Fortune* Brainstorm Health; Laguna Niguel, California, 03/18
169. “Precision Health vs. Physician Burnout”, Human Intelligence and Artificial Intelligence Symposium; Stanford, California, 04/18
170. “What is Precision Health?”, Northern California Chapter of the American College of Surgeons; Berkeley, California, 04/18
171. “From Patients to Populations: Leading the Precision Health Revolution”, Livongo; Mountain View, California, 04/18
172. “Unusual Suspects: Who Will Rescue Healthcare?” Panel, HLTH 2018 Conference; Las Vegas, 05/18
173. “Rapid Change or Linear Evolution: Where Will We Be a Year from Now?” Panel, LIGHT Forum; Stanford, California, 05/18
174. “Finding Balance as a Clinician Scientist: My Discovery of Superior Canal Dehiscence”, Weill Cornell Medicine Otolaryngology Grand Rounds; New York, New York, 05/18
175. “From Patients to Populations: Leading the Precision Health Revolution”, Weill Cornell Medicine Dean’s Distinguished Lecture; New York, New York, 05/18
176. “Artificial Intelligence and Analytics in Healthcare: How Can AHCs Prepare for the Growth of Artificial Intelligence”, Blue Ridge Academic Health Group; Napa Valley, California, 06/18
177. “Executive Forum: AI-powered Precision Medicine — Forging a Path to Personalized Health” Panel, American Hospital Association Leadership Summit; San Diego, 06/18
178. “Precision Health: Predicting, Preventing, and Curing Precisely in the Digital Age”, DN Capital/Silicon Valley Bank Roundtable on Precision Medicine and Health Trends; Menlo Park, California, 07/18
179. “Technology’s Precision Health Promise”, Stanford China Economic Forum; Beijing, 09/18
180. “Technology and the Future of Medicine”, SIEPR-San Si Workshop on Technology; Beijing, 09/18
181. “Discovery and Diversity: Critical Factors for Tomorrow’s Health Care”, Berkeley Forum; Berkeley, California, 02/19

182. “Digitally Driven: Health Care in the Era of Precision Health”, Flexner Discovery Lecture Series; Nashville, Tennessee, 02/19
183. “Digital Technologies and the Future Physician”, Imagine Solutions Conference; Naples, FL, 02/19

INVITED COMMENTARY

1. Minor, L.B. (1997). Utility of posturography in management of selected conditions that cause dizziness. *American Journal of Otolaryngology* 18: 113-115.
2. Minor, L.B. (2005). Ménière’s disease and migraine. *Archives of Otolaryngology–Head and Neck Surgery* 131: 460.
3. Crane, B.T., Minor, L.B., and Carey, J.P. (2009). Virtual endoscopy has a limited role in the diagnosis of superior semicircular canal dehiscence. *Otolaryngology–Head and Neck Surgery* 140: 771.
4. “Leadership Speaks” Columns in *Change*, a forum for Johns Hopkins Medicine faculty and senior staff:
 - A primer on health care reform, 01/11
 - Medical liability reform, 05/11
 - The promise of accountable care, 09/11
 - Reforming health care delivery for chronic disease, 10/11
 - Confronting chronic diseases around the world, 11/11
 - In and out and back again: Broadening our mission to prevent hospital readmissions, 12/11
 - Prove it! Learning what works through comparative effectiveness research, 01/12
 - [Wanted: \\$300 billion](#), 02/12
 - [Ensuring access by investing in graduate medical education](#), 03/12
 - [Looking beyond medical care to the social determinants of health](#), 04/12
 - [Moving academic medicine forward](#), 06/12
5. Minor, L.B. (2014, April 10). [The humanities and medicine](#). *The Stanford Daily*
6. “National Strategy for Expanding Scientific Workforce Diversity: Developing an Action Plan”, National Institutes of Health (NIH) Webinar, 11/14
7. Minor, L.B. (2015). Foreword. In Roberts, L.W., Reicherter, D., Adelsheim, S., and Joshi, S.V. (eds.), [Partnerships for Mental Health: Narratives of Community and Academic Collaboration](#). Switzerland:

Springer International Publishing, vii-x.

8. Minor, L.B. (2015, August 24). [Innovation in medicine](#). *The Times of India*
9. Minor, L.B. (2016, January 6). [We don't just need precision medicine; we need precision health](#). *Forbes*
10. Minor, L.B. (2017, March 3). [The secret to getting young men to go to the doctor](#). *Wall Street Journal*
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