Hilary A. Brodie, M.D., Ph.D.

Clinical Interests

Dr. Brodie has a subspecialty practice in otology and neurotology. His clinical focus is in hearing loss and various diseases affecting the middle and inner ears. Together with Dr. Karen Doyle, he works with a team of audiologists, speech pathologists and physical therapists to provide comprehensive programs in cochlear implantation and in the treatment of vestibular disorders.

Research/Academic Interests

Dr. Brodie is engaged in research related to understanding the underlying mechanisms of a disease called labyrinthitis ossificans, in which new bone forms in the inner ear following diseases such as meningitis, skull fractures, and various inflammatory diseases.

The significance of this research involves future cochlear implantation. If a child is deafened by meningitis and the cochlea fills with new bone, insertion of a cochlear implant is hindered. Understanding the mechanisms of bone deposition will hopefully allow for inhibition of the process and thereby maintain a patent cochlea.

Title

Chair of Otolaryngology
Professor

Specialty

Cancer, Otolaryngology (ENT/Ears, Nose, Throat), Otology/Neurotology, Surgery - Head and Neck, Otolaryngology

Department

Otolaryngology

Division

Head and Neck Surgery

Center/Program Affiliation

UC Davis Comprehensive Cancer Center

Address/Phone

Glassrock Building, General Otolaryngology Clinic, 2521 Stockton Blvd. Suite 5200 Sacramento, CA 95817
Phone: 916-734-5400

Additional Phone

Physician Referrals: 800-4-UCDAVIS (800-482-3284)

Education

M.D., University of Colorado School of Medicine, Denver, Colorado, 1983
Ph.D., UC Davis School of Medicine, Sacramento, California, 1991
B.S., UC Santa Barbara, Santa Barbara, California, 1977

Internships

Presbyterian Hospital, Denver, Colorado, 1984

Residency

University of California, Davis Medical Center, Sacramento, California, 1991-92

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Fellowships

University of California, Davis Medical Center, Los Angeles, California, 1992

Board Certifications

American Board of Otolaryngology, 1991

Professional Memberships

Alpha Omega Alpha Honor Medical Society
American Academy of Otolaryngology- Head and Neck Surgery
American Medical Association
American Neurotology Society
American Otological Society
Association for Research in Otolaryngology
Association of Academic Departments of Otolaryngology-Head and Neck Surgery
Sacramento Society of Otolaryngology-Head and Neck Surgery
Society of University Otolaryngologists-Head and Neck Surgeons
Triological Society

Honors and Awards

Alpha Omega Alpha Honor Medical Society Faculty Award, 2001
Heroes in Healthcare Award - Coalition for Excellence in Healthcare, 2000

Select Recent Publications

Tanigawa T, Tanaka H, Hayashi K, Nakayama M, Iwasaki S, Banno S, Takumida M, Brodie H, Inafuku S. Effects of hydrogen peroxide on vestibular hair cells in the guinea pig: Importance of cell membrane impairment preceding cell death. Acta Oto-Laryngologica, 1-7, 2008.

Yeung AH, Tinling SP, Brodie HA. Inhibition of post-meningitic cochlear injury with cerebrospinal fluid irrigation. Otolaryngology-Head and Neck Surgery 134(2):214-24, 2006.

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Aminpour S, Tinling SP, Brodie HA. Role of tumor necrosis factor alpha (TNF-a) in sensorineural hearing loss following bacterial meningitis. Otology & Neurotology 26(4):602-609, July 2005.

Tinling SP, Nabili VN, Brodie HA. Fine structure histopathology of labyrinthitis ossificans in the gerbil model. Annals of Otology, Rhinology and Laryngology 114(2):161-166, 2005.

Ge N, Brodie SA, Tinling SP, Brodie HA. The effects of superoxide dismutase in gerbils with bacterial meningitis. Otolaryngology Head Neck Surgery 131(5):563-72, November 2004.

Tinling SP, Colton J, Brodie HA. Location and timing of initial osteoid deposition in postmeningitic labyrinthitis ossificans determined by multiple fluorescent labels. The Laryngoscope 114:675-680, April 2004.

Mhatre AM, Kim Y, Brodie HA, Lalwani AK. Macrothrombocytopenia and progressive deafness is due to a mutation in MYH9. Otology & Neurotology 24:205-209, March 2003.

Buckmiller, L.M., H.A. Brodie, K.J. Doyle and W.R. Nemzek. Choristoma of the middle ear: A

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component of a new syndrome? Otology Neurotology 22 (3):363-368, May 2001.
Nemzek, W.R., H.A. Brodie, S.T. Hecht, B.W. Chong, C.J. Babcook and J.A. Seibert. MR, CT, and plain film imaging of the developing skull base in fetal specimens. American Journal of Neuroradiology 21:1699-1706, October 2000.
DeSautel, M.G. and H.A. Brodie. The effects of decomplementation in the development of labyrinthitis ossificans in gerbils. Laryngoscope 109:1674- 1678, October 1999.
Nabili, V., H.A. Brodie, N.I. Neverov and S.P. Tinling. Chronology of labyrinthitis ossificans induced by streptococcus pneumoniae meningitis. Laryngoscope 109:931-935, June 1999.
Brodie HA, Thompson TC, Vassilian L, Lee BN. Induction of labyrinthitis ossificans after pneumococcal meningitis: An animal model. Otolaryngology-Head and Neck Surgery 118(1):15-21, January 1998.
Brodie HA. Prophylactic antibiotics for post traumatic cerebrospinal fluid fistulae. A Meta-analysis. Archives of Otolaryngology-Head and Neck Surgery 123:749-752, July 1997.
Brodie, H.A. and T.C. Thompson. Management of complications from 820 temporal bone fractures. American Journal of Otology 18:188-197, March 1997.

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