curriculum vitae

DAVID PAUL COREY

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BIRTHPLACE: Boston, Massachusetts

EDUCATION:

1974	BA in Physics Amherst College, Amherst, MA
1980	PhD in Neurobiology California Institute of Technology, Pasadena, CA

PROFESSIONAL EXPERIENCE:

1975-1980	California Institute of Technology, Pasadena, CA Graduate Student with A. James Hudspeth, Neurobiology
1980-1984	Yale University School of Medicine, New Haven, CT 1980 Postdoctoral Fellow with Charles F. Stevens, Department of Physiology 1984 Assistant Professor, Section of Molecular Neurobiology
1984-2018	Howard Hughes Medical Institute 1984 Associate Investigator 1996 Investigator
1984-2002	Massachusetts General Hospital, Boston, MA 1984 Assistant Physiologist, Department of Neurology 1990 Associate Neurobiologist, Department of Neurology 1996 Neurobiologist, Departments of Neurology and Neurosurgery
1984-	Harvard Medical School, Boston, MA 1984 Assistant Professor of Neuroscience 1990 Associate Professor of Neuroscience 1996 Professor of Neurobiology 2007-8 Interim Chair, Department of Neurobiology 2015 Bertarelli Professor of Translational Medical Science

SERVICE POSITIONS:

2018	*Gene Therapy for Sensory Disorders* meeting, HMS, Organizer
2016	*Translating Neuroscience: From Concept to Clinic* meeting, HMS, Organizer
2015	*Force-Gated Ion Channels* meeting, Janelia Farm, Organizer
2014	*Neuroengineering: Molecules, Minds & Machines* meeting, HMS, Organizer
2014	*Mechanics of Hearing* meeting (Sounion, Greece), Co-Organizer
2011-2016	Hearing Health Foundation, Scientific Advisory Board
2011	*Neuroengineering Approaches to Sensory Disorders* meeting, HMS, Organizer
2011-	Bertarelli Program in Translational Neuroscience and Neuroengineering, Director
2009	*Molecular Biology of Hearing and Deafness* meeting, Organizing Committee Chair
2008	*Current Opinion in Neurobiology – Sensory Systems*, Co-Editor
2008	*Force-Gated Ion Channels* meeting, Janelia Farm, Organizer
2007	Harvard University NeuroScience Retreat, Organizer
2006- 2009	Association for Research in Otolaryngology, Program Committee
2004-2008	University of Maryland College of Life Sciences, Board of Visitors
2004-2006	Exploratorium, San Francisco, *Listening* Advisory Committee
2001-2010	Faculty of 1000, Section Head, Sensory Systems
2000-	Harvard Medical School Center for Hereditary Deafness, Founding Co-Director
1999-2005	*Journal of the Association for Research in Otolaryngology*, Associate Editor
1997-2001	National Institute on Deafness and Other Communication Disorders, Advisory Council
1997-2001	Biophysical Society, Council
1995-1997	Society of General Physiologists, Council
1996	*Current Opinion in Neurobiology – Sensory Systems*, Co-Editor
1991	Society of General Physiologists 45th Annual Symposium, Organizer
1989-1995	*Journal of Neurophysiology,* Associate Editor
1986-1991	*Journal of Neuroscience,* Associate Editor
1984-1989	Society for Neuroscience Program Committee; Chairman, 1989
1981-1983	Cold Spring Harbor Course in Single-Channel Recording, Instructor and Director

HONORS:

2022	von Békésy Medal, Hungarian Academy of Sciences
2019	Doctor of Science (honorary), Amherst College
2018	Albert Aguayo Lecture, McGill University
2012	Award of Merit, Association for Research in Otolaryngology
2011	Fellow, American Academy of Arts & Sciences
2010	F.C. MacIntosh Lectureship Award, McGill University
2004	Excellence in Teaching Award, Harvard Medical School
2004	University Lecturer, University of Texas Southwestern
2000	A. Clifford Barger Excellence in Mentoring Award, Harvard Medical School
1999	Mirmelstein-Kresge Award for Excellence in Hearing Science
1996	Young Investigator Award, Biophysical Society
1984	Alfred P. Sloan Research Fellowship
1978	Intra-Science Research Foundation Prize

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166. Ivanchenko, M.V. and **Corey, D.P.** (2023) Finding a window for gene therapy for hereditary deafness. *Proc. Natl. Acad. Sci.* 120:e2311864120

165. Peters, C.W., Hanlon, K.S., Ivanchenko, M.V., Zinn, E., Linarte E., Li, Y., Levy, J.M., Liu, D.R., Kleinstiver, B.P., Indzhykulian, A.A. and **Corey, D.P.** (2023) Rescue of hearing by adenine base editing in a humanized mouse model of Usher syndrome type 1F. *Molecular Therapy* 31:2439-2453.

164. Ivanchenko, M.V., Hathaway, D.M., Klein, A.J., Pan, B., Strelkova, O., De-la-Torre, P., Wu, X., Peters, C.W., Mulhall, E.M., Booth, K.T., Goldstein, C., Brower, J., Sotomayor, M., Indzhykulian, A.I. and **Corey, D.P.** (2023) Mini-PCDH15 gene therapy rescues hearing in a mouse model of Usher syndrome type 1F. *Nature Comms.* 14(1):2400.

163. Akyuz, N.*, Karavitaki1, K.D.*, Pan, B.*, Tamvakologos, P.I., Brock, K.P., Li, Y., Marks, D.S. and **Corey, D.P.** (2022) Mechanical gating of the auditory transduction channel TMC1 involves the fourth and sixth transmembrane helices. *Science Advances*. 8(28):eabo1126.

162. Ivanchenko, M.V., Indzhykulian, A.I. † and **Corey, D.P.** † (2021) Electron microscopy techniques for investigating structure and composition of hair-cell stereociliary bundles. *Frontiers in Cell and Developmental Biology* 9:744248.

161. Booth, K.T., Hirsch, Y., Vardaro, A.V., Ekstein, J., Yefet, D., Quint, A., Weiden, T. and **Corey, D.P.** (2021) Identification of novel and recurrent variants in MYO15A in Ashkenazi Jewish patients with autosomal recessive nonsyndromic hearing loss. *Frontiers in Genetics* 12:737782.

160. Ivanchenko, M.V.*, Hanlon, K.S.*, Hathaway, D.M, Klein, A.J., Peters, C.W., Li, Y., Tamvakologos, P.I., Nammour, J., Maguire, C.M. † and **Corey, D.P.** † (2021) AAV-S: A versatile capsid variant for transduction of mouse and primate inner ear. *Molecular Therapy - Methods & Clinical Development* 21:382-398.

159. Mulhall, E.M, Ward, A., Yang, D., Koussa, M.A., **Corey, D.P.**, Wong, W.P. (2021) Single-molecule force spectroscopy reveals the dynamic strength of the hair-cell tip-link connection. *Nature Comms.* 12:849

158. Ivanchenko, M.V., Cicconet, M., Al Jandal, H., Wu, X., **Corey, D.P.**†, Indzhykulian, A.A.† (2020) Serial scanning electron microscopy of anti-PKHD1L1 immuno-gold labeled mouse hair cell stereocilia bundles. *Scientific Data* 7, 182.

157. **Corey, D.P.**, Maguire, C.A. (2020) Viral vectors for gene delivery to the inner ear. *Hearing Research* 394:107927.

156. Ivanchenko, M.V., Hanlon, K.S., Devine, M.K., Tenneson, K., Emond, F., Lafond, J.F., Kenna, M.A., **Corey, D.P.,** Maguire, C.A. (2020) Preclinical testing of AAV9-PHP.B for transgene expression in the non-human primate cochlea. *Hearing Research* 394:107930.

155. Hanlon, K.S., Kleinstiver, B.P., Garcia, S., Zaborowski, M., Volak, A., Spirig, S.E., Muller, A., Sousa, A.A., Tsai, S., Bengtsson, N.E., Loov, C., Ingelsson, M., Chamberlain, J.S., **Corey, D.P.**, Aryee, M., Joung, J.K., Breakefield, X.O.,. Maguire, C.A.†, György, B.† (2019) High levels of AAV vector integration into CRISPR-induced DNA breaks. *Nature Comms*. 10:4439.

154. Wu, X.‡, Ivanchenko, M.V.‡, Al Jandal, H., Cicconet, M., Indzhykulian, A.A.†, **Corey, D.P**.† (2019) PKHD1L1 is a coat protein of hair-cell stereocilia and is required for normal hearing. *Nature Comm*. 10: 3801.

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151. **Corey, D.P.**, Akyuz, N., Holt, J.R. (2018) Function and dysfunction of TMC channels in inner ear hair cells. *Cold Spring Harb. Perspect. Med.* pii: a033506.

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149. Krey, J.F., Scheffer, D.I., Choi, D., Reddy, A., David, L.L., **Corey, D.P.**, Barr-Gillespie, P.G. (2018) Mass spectrometry quantitation of proteins from small pools of developing auditory and vestibular cells. *Sci. Data* 5:180128.

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147. Gyorgy, B., Sage, C., Indzhykulian, A.A.,Scheffer, D.I., Brisson, A.R., Tan, S., Wu, X., Volak, A., Mu, D., Tamvakologos, P., Li, Y., Fitzpatrick, Z., Ericsson, M., Breakfield, X.O., **Corey, D.P.†,** and Maguire, C.A.† (2017) Rescue of hearing by gene delivery to inner-ear hair cells using exosome-associated AAV. *Molecular Therapy* 25:379-391.

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146. **Corey, D.P.**, Ó Maoiléidigh, D. and Ashmore, J.F. (2017) Mechanical Transduction Processes in the Hair Cell. *in* G.A. Manley et al. (eds.), *Understanding the Cochlea*, Springer Handbook of Auditory Research. pp 75-111

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143. Asadnia, M., Kottapalli, A.G., Karavitaki, K.D., Warkiani, M.E., Miao, J. , **Corey, D.P**, Triantafyllou, M. (2016) From biological cilia to artificial flow sensors: Biomimetic soft polymer nanosensors with high sensing performance. *Scientific Reports* 6:32955.

142. **Corey, D.P** and Holt, J.R. (2016) Are TMCs the mechanotransduction channels of vertebrate hair cells? *J. Neurosci*. 36:10921–10926.

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140. Wu, X., Indzhykulian, A.A., Niksch, P.D., Webber, R.M., Garcia-Gonzalez, M., Watnick, T., Zhou, J., Vollrath, M.A. and **Corey, D.P.** (2016) Hair-cell mechanotransduction persists in TRP channel knockout mice. *PLOS ONE* 11:e0155577.

139. Delling, M., Indzhykulian, A.A., Liu, X., Li, Y., Xie, T., **Corey, D.P.**† and Clapham, D. E.† (2016) Primary cilia are not calcium-responsive mechanosensors. *Nature* 531:656-60.

138. Zhao, H., Shen, A., Xiang, Y.K., and **Corey, D.P.** (2016) Three recombinant engineered antibodies against recombinant tags with high affinity and specificity. *PLOS ONE* 11:e0150125.

137. Lin, S-Y., Vollrath, M.A., Mangosing, S., Shen, J., Cardenas, E. and **Corey, D.P.** (2016) The zebrafish pinball wizard gene encodes WRB, a putative tail-anchored-protein receptor required for proper development and function of inner-ear hair cells and retinal photoreceptors. *J. Physiol*. 594:895-914.

136. Karavitaki, K.D., Indzhykulian, A.A., Zhang, D-S. and **Corey, D.P.** (2015) In search of the cochlear amplifier: New mechanical and molecular tools to probe transduction channel function. in *Mechanics of Hearing: Protein to Perception*, K.D. Karavitaki and D.P. Corey, eds. American Institute of Physics (Melville, New York)

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132. Dattoma, T., Qualtieri, A., Karavitaki, K.D., **Corey, D.P**, De Vittorio, M., Rizzi, F. (2015) Design of a tunable PDMS force delivery and sensing probe for studying mechanosensation. *IEEE Sensors Journal* 16:1558-1748

131. Indzhykulian, A.A and **Corey, D.P.** (2015) In the right place at the right time: Is TMC1/2 the transduction channel for hearing? *Cell Reports* 12:1531-1532

130. Vuckovic, D., Dawson, S., Scheffer, D.I., Rantanen, T., Morgan, A., Di Stazio, M., Vozzi, D., Nutile, T., Concas, M.P., Biino, G., Nolan, L., Bahl, A., Loukola, A., Viljanen,A., Davis, A., Ciullo, M., **Corey, D.P.**, Pirastu, M., Gasparini, P., and Girotto, G. (2015) Genome-wide association analysis on normal hearing function identifies PCDH20 and SLC28A3 as candidates for hearing function and loss. *Human Molecular Genetics* 24:5655-64.

129. Shen, J., Scheffer, D.I., Kwan, K.Y. and **Corey, D.P.** (2015) SHIELD: an integrative gene expression database for inner ear research. *Database* 2015:bav071.

128. Scheffer, D.I., Shen, J., **Corey, D.P**.†, Chen, Z-Y.† (2015) Gene expression by mouse inner ear hair cells during development. *J. Neurosci.* 35:6366-6380

127. Scheffer, D.I., Zhang, D-Z, Shen, J., Indzhykulian, A., Karavitaki, K.D., Xu, Y.J., Wang, Q., Lin, J.J-C., Chen, Z-Y., **Corey, D.P** (2015) XIRP2, an essential actin crosslinker in inner ear hair-cell stereocilia. *Cell Reports* 10:1811-1818.

126. Drummond, M.C., Barzik, M., Bird, J.E., Zhang, D-Z., Lechene, C.P., **Corey, D.P**, Cunningham, L.L., Friedman, T.B. (2015) Live-cell imaging of actin dynamics reveals mechanisms of stereocilia development and homeostasis in the inner ear. *Nature Communications* 6:6873.

125. Narayanan, P., Chatterton, P., Ikeda, A., Ikeda, S., **Corey, D.P**., Ervasti, J.M., and Perrin, B.J. (2015) Length regulation of mechanosensitive stereocilia depends on very slow actin dynamics and filament severing proteins. *Nature Communications* 6:6855.

124. Kwan, K.Y., Shen, J. and **Corey, D.P.** (2015) C-MYC transcriptionally amplifies SOX2 target genes to regulate self-renewal in multipotent otic progenitor cells. *Stem Cell Reports* 4:47-60.

123. Sotomayor, M., Gaudet, R. and **Corey, D.P.** (2014) Sorting out a promiscuous superfamily: toward cadherin connectomics. *Trends in Cell Biology* 24:524-536.

122. Karavitaki, K.D., Niksch, P.D., **Corey, D.P.** (2013) Weak lateral coupling between stereocilia of mammalian hair cells requires new stimulus methods to study the biomechanics of hearing. *J. Acoust. Soc. Am*. 133:3509-3513.

121. Geng, R., Sotomayor, M., Kinder, K., Gopal, S.R., Gerka-Stuyt, J., Chen, D.H.-C., Hardisty-Hughes, R., Ball, G. Parker, A., Gaudet, R., Furness, D., Brown, S.D., **Corey, D.P**. and Alagramam, K.N. (2013) Noddy, a mouse harboring a missense mutation in protocadherin-15, reveals the impact of disrupting a critical interaction site between tip-link cadherins in inner ear hair cells. *J. Neurosci.* 33:4395–4404

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116. Shigetomi, E., Tong, X., Kwan, K.Y., **Corey, D.P**. and Khakh, B.S. (2011) TRPA1 channels regulate astrocyte resting calcium and inhibitory synapse efficacy via GAT-3. *Nature Neuroscience* 15:70-80

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112. **Corey, D.P.** (2009) Cell biology of mechanotransduction in inner-ear hair cells. *F1000 Biology Reports* 1:58.

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98. Cheung, E. L-M. and **Corey, D.P.** (2006). Ca^{2+} changes the force sensitivity of the hair-cell transduction channel. *Biophysical Journal* 90: 124-139.

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