

*curriculum vitae*

## DAVID PAUL COREY

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**BIRTH DATE:** May 9, 1951

**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	<i>Gene Therapy for Sensory Disorders</i> meeting, HMS, Organizer
2016	<i>Translating Neuroscience: From Concept to Clinic</i> meeting, HMS, Organizer
2015	<i>Force-Gated Ion Channels</i> meeting, Janelia Farm, Organizer
2014	<i>Neuroengineering: Molecules, Minds &amp; Machines</i> meeting, HMS, Organizer
2014	<i>Mechanics of Hearing</i> meeting (Sounion, Greece), Co-Organizer
2011-2016	Hearing Health Foundation, Scientific Advisory Board
2011	<i>Neuroengineering Approaches to Sensory Disorders</i> meeting, HMS, Organizer
2011-	Bertarelli Program in Translational Neuroscience and Neuroengineering, Director
2009	<i>Molecular Biology of Hearing and Deafness</i> meeting, Organizing Committee Chair
2008	<i>Current Opinion in Neurobiology – Sensory Systems</i> , Co-Editor
2008	<i>Force-Gated Ion Channels</i> 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, <i>Listening</i> Advisory Committee
2001-2010	Faculty of 1000, Section Head, Sensory Systems
2000-	Harvard Medical School Center for Hereditary Deafness, Founding Co-Director
1999-2005	<i>Journal of the Association for Research in Otolaryngology</i> , 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	<i>Current Opinion in Neurobiology – Sensory Systems</i> , Co-Editor
1991	Society of General Physiologists 45th Annual Symposium, Organizer
1989-1995	<i>Journal of Neurophysiology</i> , Associate Editor
1986-1991	<i>Journal of Neuroscience</i> , 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:

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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158. 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.
157. 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.
156. 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.
155. 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.
154. 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.
153. 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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**D.P.†** (2019) Allele-specific gene editing prevents deafness in a model of dominant progressive hearing loss. *Nature Medicine* 25:1123-1130

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93. Sotomayor, M., **Corey, D.P.** and Schulten, K. (2005) In search of the hair-cell gating spring: Elastic properties of ankyrin and cadherin repeats. *Structure* 13: 669-682.
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