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Cynthia F. Bearer, MD, PhD, FAAP

Cobey Chair in Neonatology

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Professor

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## Education and Training

Degrees:

1972: B.A., Smith College, Mathematics, cum laude

1977: Ph.D., CaseWestern ReserveUniversity, Biochemistry, Dr. Kenneth Neet

1982: M.D., The Johns Hopkins University, Medicine

Internship and Residency:

1982–1983: Intern, Pediatrics, The Johns Hopkins Hospital, Baltimore, Maryland

1982–1984: Clinical Fellow in Pediatrics, The Johns Hopkins University School of Medicine

1983–1984: Resident, Pediatrics, The Johns Hopkins Hospital, Baltimore, Maryland

### Fellowships:

1977–1978: Research Associate, Department of Cell Biology, Baylor College of Medicine, Dr. Lutz Birnbaumer

1978–1979: Postdoctoral Fellow, Department of Pharmacology, University of Texas Medical School at Houston, Dr. Joseph Thompson

1984–1986: Fellow, Joint Program in Neonatology, Harvard Medical School, Dr. Alan L. Schwartz

1986–1987: Fellow, Division of Newborn Medicine, Washington University School of Medicine, Dr. Alan L. Schwartz

### Postgraduate Training:

1990–1991: Postgraduate training, Occupational and Environmental Medicine, University of California San Francisco, Dr. Joseph LaDou

1992: Executive Leadership in Medicine, Levinson Institute, Harvard University

## Biosketch

Cynthia F. Bearer, MD, PhD is the Mary Gray Cobey Professor of Neonatology with tenure, Chief of Neonatology and Associate Chair for Research, Department of Pediatrics, University of Maryland School of Medicine. She is the Editor-in-Chief of Pediatric Research.

Dr. Bearer completed a BA with honors in mathematics from Smith College; a Ph.D. in biochemistry from Case Western Reserve University; and an M.D. from The Johns Hopkins University School of Medicine. She became an Assistant Professor of Pediatrics at Case Western Reserve University in 1994 where she was promoted to Professor of Pediatrics with tenure. In 2008 she moved to University of Maryland School of Medicine to become the Mary Gray Cobey Professor of Neonatology. In 2009 she became Chief, Division of Neonatology and in 2012 Associate Chair for Research.

She has published extensively on fetal and pediatric environmental health. Her research has received funding from NIH, CDC and U.S. EPA. She has established fatty acid ethyl esters as a biomarker for both in utero exposure to ethanol, and impact on neurocognitive outcomes. She holds a patent on this technology. Her laboratory is studying the impact of common solvents including ethanol on the development of the cerebellum using both cellular and animal models. She is currently funded by the NIH/NICHD to study the impact of bilirubin and hypoxic ischemic injury on lipid rafts. She is a frequently invited speaker nationally and internationally.

She has published extensively in the scientific literature: 8 book chapters, and 70 peer reviewed articles. Dr. Bearer is Editor-in-Chief of the journal, Pediatric Research. She is a member of the American Pediatrics Society and the Society for Pediatric Research. She has served on the Committee to Evaluate Children's Health of the National Academy of Science. She is past President of the Fetal Alcohol Syndrome

Study Group. She has served on the Scientific Advisory Board for the U.S. EPA. She is a Smith College Gold Medalist.

## Highlighted Publications

Milstone AM, Bamford P, Aucott S, Tang N, White KR, Bearer CF. Chlorhexidine inhibits L1 cell adhesion molecule mediated neurite outgrowth in vitro. *Pediatr Res* 2014 Jan;75(1-1):8-13. PMID: 24126818

Tang N, Bamford P, Jones J, He M, Kane MA, Mooney SM, Bearer CF. Choline partially prevents the impact of ethanol on the lipid raft dependent functions of L1 cell adhesion molecule. *Alcohol Clin Exp Res* 2014 Nov;38(11):2722-30. PMID: 25421509

Min MO, Singer LT, Minnes S, Wu M, Bearer CF. Association of fatty acid ethyl esters in meconium and cognitive development during childhood and adolescence. *J Pediatr*. 2015 Apr;166(4):1042-7. doi: 10.1016/j.jpeds.2014.12.008. Epub 2015 Jan 13. PMID:25596105

Bearer CF, Wellmann KA, Tang N, He M, Mooney SM. Choline ameliorates deficits in balance caused by acute developmental ethanol exposure. *Cerebellum* 2015 Aug;14(4):413-20. doi: 10.1007/s12311-015-0691-7.

White KMR, Sabatino JA, He M, Davis N, Tang N, Bearer CF. Toluene disruption of the functions of L1 cell adhesion molecule at concentrations associated with occupational exposures. *Pediatr Res* 2016;80:170-1.

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