



Steven Gray, Ph.D.
Associate Professor
Department of Pediatrics
University of Texas Southwestern Medical Center

<https://profiles.utsouthwestern.edu/profile/175486/steven-gray.html>

<http://www.med.unc.edu/genethrapy/research-laboratories/gray-lab>

Dr. Steven Gray earned his Ph.D. in molecular biology from Vanderbilt University in 2006, after receiving a B.S. degree with honors from Auburn University. He performed a postdoctoral fellowship focusing on gene therapy in the laboratory of Jude Samulski at UNC. He was an assistant professor at UNC in the Department of Ophthalmology until 2017, and still maintains a gene therapy lab at UNC. Dr. Gray is currently an Associate Professor in the Department of Pediatrics at the University of Texas Southwestern Medical Center. He is also a member of the Gene Therapy Center and the Carolina Institute for Developmental Disabilities (CIDDD).

Dr. Gray's core expertise is in AAV gene therapy vector engineering, followed by optimizing approaches to deliver a gene to the nervous system or eye. His major focus is in AAV vector development to develop vectors tailored to serve specific clinical and research applications involving the nervous system or eye. These include the development of novel AAV capsids amenable to widespread CNS gene transfer or specialized ocular gene transfer. As AAV-based platform gene transfer technologies have been developed to achieve global, efficient, and in some cases cell-type specific CNS gene delivery, his research focus has also included preclinical studies to apply these reagents toward the development of treatments for neurological diseases. Currently these include preclinical studies for Rett Syndrome, Giant Axonal Neuropathy (GAN), Tay-Sachs, Krabbe, AGU, and Batten Disease, and have expanded into human clinical studies to test a gene therapy approach for GAN.

Dr. Gray has published over 50 peer-reviewed papers in journals such as *New England Journal of Medicine*, *Molecular Therapy*, *Nature Biotechnology*, *Gene Therapy*, and *The Proceedings of the National Academy of Sciences*. He also has 3 pending patents. His research is funded by the National Institute for Neurological Disorders and Stroke, as well as numerous large and small research foundations. Dr. Gray was recently recognized with the 2016 Healthcare Hero award by the Triangle Business Journal, and his work on GAN was featured in a story by the CBS National Evening News in 2015.