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Dr. Humayun is an internationally recognized pioneer in vision restoration. He assembled a team of multidisciplinary experts to develop the first FDA approved artificial retina, Argus II, for sight restoration. He has more than 125 issued patents and over 250 peer reviewed publications. He has a google scholar H index of 99.

Dr. Humayun is a member of the U.S. National Academies of Medicine, Engineering, and Inventors. He is a Fellow of the American Association for the Advancement of Science (AAAS), Institute of Electrical and Electronics Engineers (IEEE), and American Society of Retinal Specialists (ASRS).

To list a few recent awards, he is the recipient of the 2018 IEEE Biomedical Engineering Award, the 2020 IEEE Medal for Innovations in Healthcare Technology, the Charles Schepens award by the American Academy of Ophthalmology in 2021. He was named top 1% of ophthalmologists by the U.S. News & World Report. For his extraordinary contributions he was awarded the United States' highest technological achievement, the 2015 National Medal of Technology and Innovation by President Obama.