



THE SOCIETY FOR GLYCOBIOLOGY

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Hudson H. Freeze, PhD, is a Professor of Glycobiology and Director of the Genetic Disease Program at the Sanford-Burnham Medical Research Institute in La Jolla. Prior to his 25 years at SBMRI, he was a member of the UCSD School of Medicine faculty, and continues there as an Adjunct Professor. He received his B.S. in 1968 from Indiana University where he isolated the first extreme thermophile, *Thermus aquaticus* (Taq). He earned his PhD in 1976 from the UCSD Department of Biology studying *Dictyostelium*.

Dr. Freeze has 35 years of continuous NIH funding beginning with his postdoctoral work in Glycobiology. In the last 15 years he focused on the identification and understanding of human genetic disorders, the Congenital Disorders of Glycosylation (CDG). His lab has identified 10 of these disorders and successfully treated some patients with oral mannose supplements. He collaborates closely with physicians and family support organizations and regularly consults on cases while still tracking the genetic basis of 60 patients with unknown glycosylation defects. CDG-related work led to studies on the life-threatening condition, protein-losing enteropathy (PLE) and ongoing clinical trials of non-anticoagulant heparin for patients who develop PLE following corrective surgery for congenital heart defects. He seeks to merge basic science and with patient-concerned, translational and therapeutic applications.

Dr. Freeze currently holds 2 R01, 1 R21 and RC1 grants from the NIH along with philanthropic support. He is currently President of the Society for Glycobiology and has authored 270 publications including peer-reviewed papers, invited reviews, book chapters and commentaries. He is the first representative from the Society for Glycobiology to serve the FASEB Board of Directors and manages The Papa Hud Foundation established to honor his father.

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