

Reid Gilmore (Worcester, USA)



Biographical Sketch: Professor and Vice-Chair of Biochemistry and Molecular Pharmacology at the University of Massachusetts Medical School. Reid Gilmore's lab has been investigating the biosynthesis and translocation of secretory proteins or integration of membrane proteins into the endoplasmic reticulum (ER) for more than 30 years. Asparagine-linked glycosylation of proteins by the oligosaccharyltransferase is an essential pathway in metazoan organisms because N-linked glycans are important for protein folding, stability, trafficking and function of proteins synthesized in the ER. Defects in N-linked glycosylation, including mutations in oligosaccharyltransferase subunits, cause a family of human diseases known as congenital disorders of glycosylation (CDG). Contact: reid.gilmore@umassmed.edu

In his presentation, he will talk about the role of the MagT1 oxidoreductase as a subunit of the STT3B isoform of the oligosaccharyltransferase in posttranslocational N-glycosylation of proteins in the endoplasmic reticulum.