

Founding Sugars: The CCRC Glycotree of Life

Modern Glycobiology at the CCRC (2001-present):

Nathan Lewis
Systems glycobiology and
cell engineering



Ian Wallace
Plant Biomass and Bioenergy



Adam Barb
Structure/function relationships
in human glycoproteins



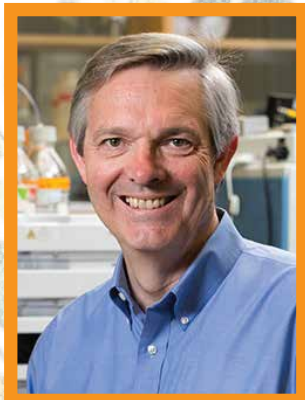
Ana Ramirez
Mechanism of GPI assembly and
remodeling in animal and parasites



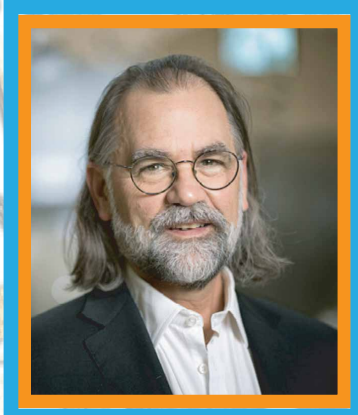
Ryan Weiss
Glycoconjugates in animal
development and disease



Robert Haltiwanger
O-glycoconjugates in animal
development and disease



Art Edison
Structural and computational
methods for glycan analysis



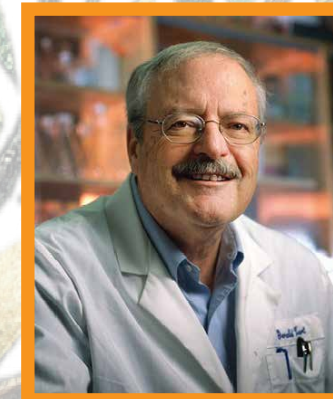
Breeanna Urbanowicz
Plant Biomass and Bioenergy



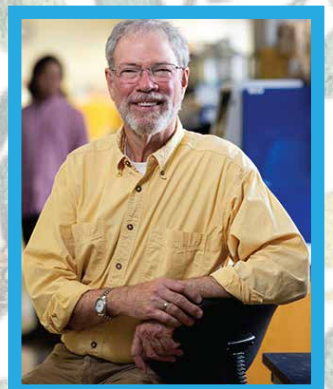
Christine Szymanski
Microbial glycobiology



Gerald Hart (*Emeritus*)
O-GlcNAcylation (OGT) and
cross-talk between phosphorylation



Chris West
Glycobiology of pathogenic
parasites and protists

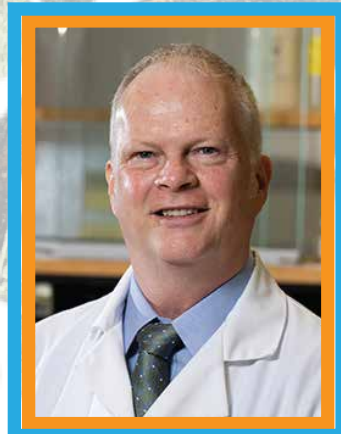


Early CCRC Trailblazers (1991-2000):

Lance Wells
O-glycosylation of various
pathophysiological processes



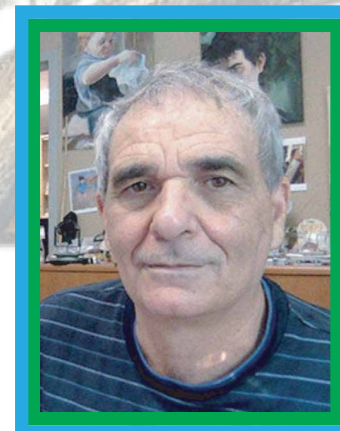
Robert Woods
Molecular modeling for protein
glycoconjugate interactions



Parastoo Azadi
Technical director of analytical service
and training at the CCRC



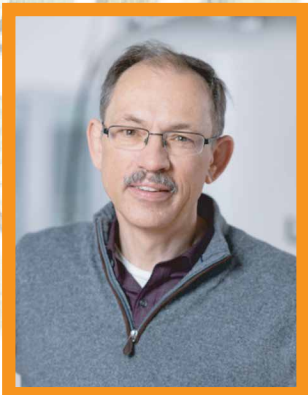
Maor Bar-Paled
Cell surface glycans in microbial and
plant interaction and pathogenicity



Michael Pierce (*Emeritus*)
Glycoconjugates, glycomics,
and glycoproteomics in cancer



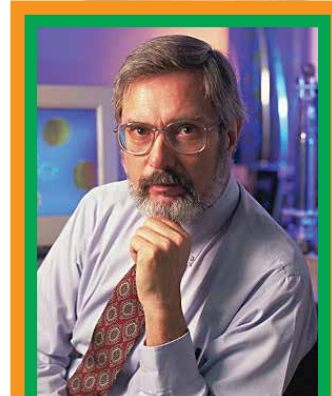
Geert-Jan Boons
Synthesis and biological
functions of carbohydrates



Michael Tiemeyer
Glycoconjugates in animal
development and disease



James Prestegard (*Emeritus*)
NMR spectroscopy to the study of the
structure and function of glycans



Ron Orlando
Glycomics & Glycoproteomics
utilizing mass spectrometry



Kelly Moremen
Enzymes involved in mammalian
glycoconjugate metabolism



Establishment of CCRC (1985-1990):

Russell Carlson (*Emeritus*)
Glycoconjugates in
host-microbial interactions



Michael Hahn (*Emeritus*)
Cell biology and biosynthesis
of plant cell walls



Late Peter Albersheim
Expanded structural work of
polysaccharides in plants



Alan Darvill (*Emeritus*)
Characterization of polysaccharides
that makeup the cell wall of plants



William York (*Emeritus*)
Spectroscopic and computational
methods for glycan analysis



Debra Mohnen
Structures, function, and
biosynthesis of plant cell walls



Founders

Sugars Across Species:

Blue = Microbes/Pathogens

Green = Plants

Orange = Animals