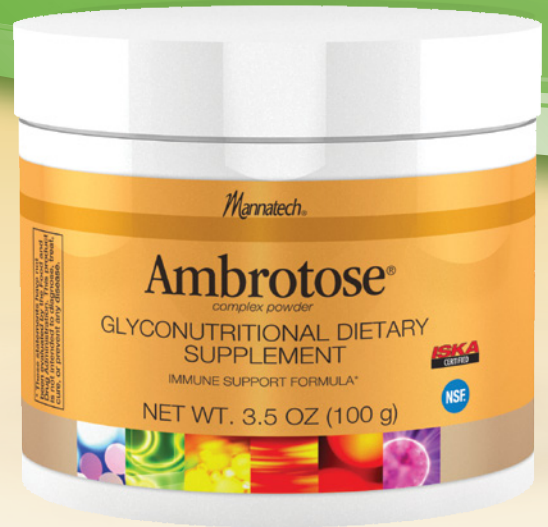


# Ambrotose® Products— The Missing Link in Human Nutrition

Ambrotose complex is the first dietary supplement to combine a standardized blend of plant-sourced glyconutrients. More than 45 patents worldwide have been issued on this breakthrough discovery in health.

Validated in Scientific Studies	Ambrotose Products†
Support Cellular Communication*	Yes
Improve Cognitive Function*	Yes
Improve Memory*	Yes
Improve Concentration*	Yes
Improve Attentiveness*	Yes
Improve Mood*	Yes
Decrease Irritability*	Yes
Support Immune System Function*	Yes
Support Digestive System Function*	Yes



## A New Strategy for Integrative Health Support

Integrative health combines the best that modern medicine has to offer in standard of care with the best strategies for supporting the body's normal recovery, repair and health functions to achieve best patient outcomes. **Healthcare professionals from all over the world have discovered the integrative health benefits of Ambrotose products.**



**Dr. John Rollins**, former Howard University College of Medicine Professor and examiner at the U.S. Patent and Trademark Office calls glyconutrients, "One of the most important healthcare discoveries of the 21st Century ... I believe that the overall immune-supporting potential of glyconutrients represents the best integrative health strategy that science has to offer."



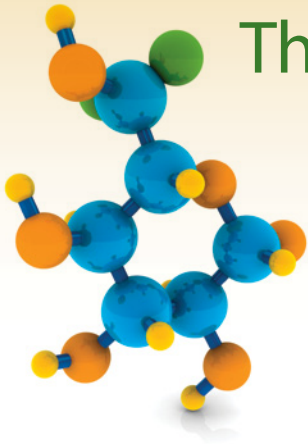
**Dr. Dan Fouts** has authored or taught glyconutrient continuing medical education courses in over 40 seminars and lectured to the public as well as healthcare professionals for over 16 years. He's seen thousands of people's lives dramatically improved by adding glyconutrients to their daily regimen and says that they "provide the healthcare professional with undoubtedly one of the most powerful combinations to benefit patients that is available today."

†Benefits vary by product. Mannatech funded some of these studies and donated the product for all of them.

\*These statements have not been evaluated by the Food and Drug Administration. This product is not intended to diagnose, treat, cure or prevent any disease.

Dr. Rollins and Dr. Fouts are Mannatech Associates and frequent speakers at company events.





# The Science of Nutritional Glycobiology

## The Sweet Language of Life

Of the 200 sugars that naturally occur in nature, our cells use these eight like letters of an alphabet to create cellular words:

Glucose\*  
 Fucose  
 Mannose  
 Galactose\*

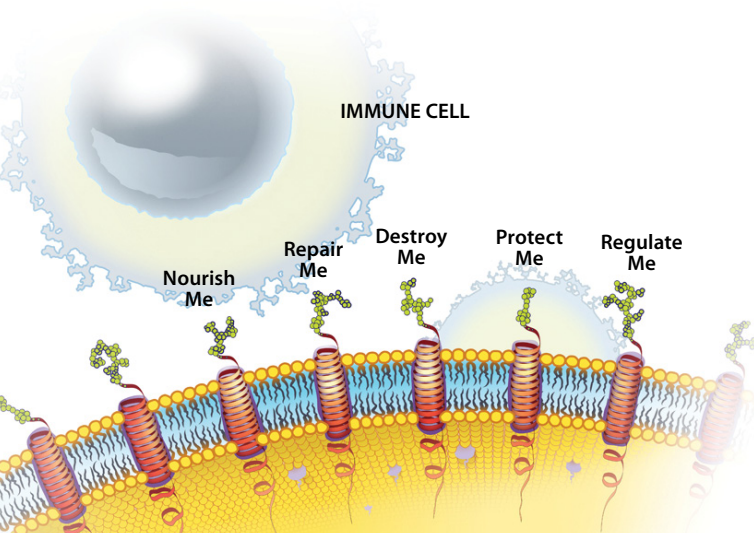
Xylose  
 N-acetylglucosamine  
 N-acetylgalactosamine  
 N-acetylneuraminic acid

**Harper's Biochemistry**  
 1996 Ed.

*\*Only two commonly found in modern diet*

Cell surface sugar structures called glycoproteins are necessary for the proper recognition and functioning of many cells.

When sugars are missing from the glycoprotein structures, cells cannot function normally.



Immune system cells read the cell surface sugar structures on other cells to determine if they're healthy, need repair or need to be destroyed.

Likewise, when sugars are missing from glycoproteins on cells, immune system cells may not know whether to ignore, attack or protect them.

## The Scientific Breakthrough



*First Dietary Supplements Formulated to Provide Standardized Levels of Plant-Sourced Glyconutrients*

### The Old Theory

Scientists once believed that it was not possible to influence the body's production of cell surface sugar structures through dietary intervention.

### The New Reality

New Research Published in the *European Journal of Clinical Nutrition* (2011) 65, 648–656 reported that:

For the first time, science has shown that the ingestion of a standardized blend of plant polysaccharides [Ambrotose powders] can induce significant changes in glycoprotein structures with no adverse effects.