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## Multiple Studies Link Diabetes, Neurodegeneration and Trehalose

### How Trehalose impacts diabetes, stress, dementia, Alzheimer's, Parkinson's, Huntington's, MS and ALS

Part 1 of 4 - Making G-proteins  
Glycoscience Lesson #25

by JC Spencer

#### Folding Glycoproteins Correctly

Universities around the world find an interesting link between diabetes and neurodegenerative challenges. We continue to evidence improved mental and motor skills that influence health benefits from those who use Trehalose.

These next four Lessons are my attempts to explain protein folding and how browning of food lets us visually comprehend more of what is happening.

We have documented improvements in stress, dementia, Alzheimer's, Parkinson's, MS and Huntington's. In Santiago, the University of Chile discovered that Trehalose causes a delay in the advancement of ALS.

Your overall health is linked to thinking more clearly with higher peak brain performance. A good immune system is vital to excellent health. Glycoscience reveals the tipping point in the equation of correcting our healthcare crisis.

#### Insulin Production Triggered by Trehalose

Poor sugar metabolism is a major contributor of diabetes and is the tipping point between vibrant health and sickness. Proper production of the insulin hormone in the body is the critical tipping point for modulation of your immune system and balancing of the endocrine system.

One Diabetic/Trehalose study concluded that stabilizing nanoparticles of Trehalose resulted in sustained release of insulin that caused

prolonged reduction of blood glucose levels in diabetic rats.

How well carbohydrates process into glucose and ATP (adenosine triphosphate) is of paramount importance. Nourishment contributes to good health or health challenges. Evidence from Rutgers University suggests that sodas sweetened with high fructose corn syrup (HFCS) may increase the risk of diabetes and obesity, particularly in children.

The nucleus was thought to control the cell. Then the DNA was thought to control the cell. But, now we know the DNA is but the hard drive that stores the data. The glycans and glycoproteins are the operating system (OS) that reads, interprets and transcribes the RNA and DNA and all communication of the body.

The folding of proteins is an entanglement that scientists are only beginning to understand.

In Part 2, browning of food is part of the entanglement.

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