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The Science of
Sugars

Breeding Better Fruits and Vegetables - An Alternative to GMO Blending of old world experience and ultrahigh technology

Glycoscience Lesson #4

by JC Spencer

The eye is offended; the tongue disappointed; and the nose is unable to contemplate the fragrant fruits of our malnourished green harvest. Absent needed phytochemicals, shortcuts produce greater yield per acre at the cost of poor health and rampant diseases.

Genomics and Glycomics provide the tools for tomorrow's plant production that will enable us to correct, improve, and return to the natural vegetation of the Garden of Eden where the words "chemical fertilizer" were never uttered.

We can again grow plants full of aroma and flavor, tasty and healthy, by breeding into them more complex sugars, polysaccharides (long chain sugars), instead of simple high glycemic sugars. Plant function can be improved free from GMO through molecular structure and phytochemical enhancement.

A researcher can snip off leaves from a plant, crush, and liquefy them to determine DNA. The DNA analysis identifies the genetic mutation that will help us understand why flavors have changed. Enhancing plants to be more flavorful can be accomplished through breeding and specific mineral absorption into the young plant. Once the DNA of the new and improved plant has been established, a follow-up DNA sample taken from a young plant leaf will indicate whether it will later produce a more tasty fruit or vegetable.

The new generation of plant breeders will combine traditional and hydroponic farming with genetic analysis to create more flavorful, colorful, shapely and nutritious fruits and vegetables, i.e., better plants, completely free from GMO contamination.

A few of tomorrow's plant breeders will be masters at determining distinctive traits, mate the best with the best, and then organically feed the delicate new plant with specific nutrients for peak

performance. Producing the unique balance of phytochemicals and complex sugars will magnify the innate succulent flavors.

Public opinion against GMO was fostered by irresponsible seed engineering to develop weed-killers and insecticides within the plants.

Around the sixth grade and during my teenage years, I successfully kept the bugs off the plants in my half acre garden by placing a small amount of the sulphur mineral near the root systems of every other row. I experimented first with potatoes and tested the mineral's ability to cause plants to resist insects. My observation and documentation (and that of others) confirmed that every other row was insect free. This project was a complete success in accomplishing bug free plants.

My plan is to introduce Glycoscience into biology at the very root of agriculture and interface with interested researchers in universities worldwide. This open source technology can restore the lush vegetation as found in the very first garden.

Source and References:

http://www.scientificamerican.com/article/creating-tastier-and-healthier-fruits-and-veggies-with-a-modern-alternative-to-gmos/?WT.mc_id=SA_BS_20140124

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