

The ENDOWMENT UPDATE

The Endowment for Medical Research™

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OUR PURPOSE: TO CONDUCT MEDICAL RESEARCH AND EDUCATIONAL RESEARCH FOR IMPROVED BRAIN FUNCTION IN CHILDREN AND ADULTS WITHOUT DRUGS OR HARMFUL SIDE EFFECTS.

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RE-ENGINEERING DNA GLYCOMICS, GENOMICS, ECONOMICS

"An informative piece." - H. Reg McDaniel, M.D.

Signal Function of DNA is Being Altered Various Ways

Altered DNA Can Compound or Correct Genetic Diseases or Cause a Pig to Produce Omega-3 Fatty Bacon

by J. C. Spencer

"Genetic circuitry" is the flourishing science of the future in glycomics, genomics, medicine, and biotechnology.

We are just beginning to learn the depths of data stored in the DNA.

Electronic engineering as we know it today was launched the year I graduated from high school in 1957 with the introduction of the semi-conductor. Integrated circuitry soon changed the face and inner workings of electronics. Previously, things were basically just hot wired together.

Today much crude hot wiring is practiced in modern day medicine with both surgery and pharmacology to turn off circuitry or in rare cases to turn it on. More disconnecting of the circuitry is practiced than making sure things are wired right.

Before the integrated electronic circuit, there was no standardization for assembly technology. Today we are beginning to see the DNA sequences and how they should or could be wired. How DNA "should" be re-programed is a blessing. How DNA "could" be re-programed can be our wildest nightmare

of greatest accomplishment that exceeds dreams of benefit.

The April 2006 issue of *Nature Biotechnology* reported that a team of scientists inserted a fish gene into fetal pig cells and have cloned cells to generate pigs with omega-3 levels three times higher than normal.

Transistorized components revolutionized the electronics industry. The disruptive technology of transistors replaced vacuum tubes. Disruptive technology happens when an advanced technology replaces the current technology simply because it is better and what the public wants and accepts at the expense of the older established methods.

My relatives owned one of the largest color printing houses in America and I was personally involved in pioneering the printing industry from traditional black and white to color. The traditional use of film for making pictures and color separations is now replaced with digital. We have experienced the traditional typewriter being replaced by the computer.

I recall a teenage friend, Freddie Mieswienkle, back in the 1950s while we were using a wire recorder, asked, "How would an advanced civilization record sound?" Intuitively, I responded, "Solid state."

We have since seen the disruptive technology of tape replace wire, vinyl records, and film; CDs and DVDs have replaced tape; and now solid state is replacing those. On the horizon is quantum electronics and molecular electronics. DNA computers are soon projected to be useful. Israeli scientists have devised a DNA computer that can perform 330 trillion operations per second, about 100,000 times the speed of the fastest PC.

With speed and reduction in size can come improved technology at a lower cost.

The ECONOMICS OF GLYCOMICS

Today glycomics is entering the arena of healthcare like the integrated circuit did in electronics in 1957. Irrefutable evidence based glycomics brings with it a reduction in healthcare costs that may parallel that of electronics while addressing diseases that traditional medicine is unable to cure.

The advancements in electronics since 1957 has been nothing short of astounding. Likewise, the cost reduction of comparable technology has gone from millions of dollars to literally hundreds of dollars, even with inflation. As recently as 1992 the cost for storing 1TeraByte (1,000 Gb) of information was \$1 million. Today, 2006, the cost is around \$230.

Glycomics will give us the standardization vital to transcend into this new frontier of healthcare.

H. Reg McDaniel, M.D., a pioneer in clinical glycomics, has said for years that anything short of a healthy cell is due to missing parts. Like an automobile assembly plant that cannot produce a car without all the parts – neither can your body produce healthy cells that function properly. The most important parts to improve health are the parts that are missing. These parts, i.e. nutrients, are found in an optimized or ideal diet. Authorities are increasingly stating that is possible in the modern era, ONLY by the addition of supplementation to the daily diet.

The cost of a glyconutrient is dramatically less when compared to drug costs. With evidence based glycomics, we can improve healthcare and at the same time lower the cost of healthcare by many Billions of dollars per year. In future issues of *The Endowment*

UPDATE we will expound on the actual projected cost reductions possible as more doctors integrate glycomics into their practices.

There is not a "deficiency" of any pharmaceutical drug in our systems. Traditional medical practitioners are learning that nutrition was forgotten when drugs were embraced as the answer to every symptom.

As transistorized components revolutionized the electronics industry, the future of glycomics rests in how we use low tech but standardized parts found in nature in the form of micronutrients. These missing parts will improve both the operating system (OS) and the coding of instructions carried on the chromosomes that control synthesis of structure and function compounds that comprise the biochemical processes of life.

Science may go beyond the ability to manufacture new long strands of transplantable DNA. Indeed, there is new evidence that the RNA can reproduce many of the templates (especially in female genetics) previously thought only to be found in DNA. We may go beyond nanotech capability to manufacture tiny biological machines to correct problems caused by damaged and altered gene-coding .

The goal, the primary objective in healthcare, should be to learn how to correct existing corrupted DNA. Replacing the missing parts that, because of their absence, caused or allowed the damage. Such investigations will advance evidence-based healthcare through glycomics.

Pre-fabrication technology in electronics by way of transistorized components is a foreshadow or example of pre-fab packages of specific nutrients that the doctors of the future will use to treat and indeed cure diseases. These pre-fab nutrient packages will be based upon evaluation research to determine which "parts" are missing in each patient.

Traditional research practices dictate double blind placebo studies which has benefit in research, **BUT NOT WHEN NOTHING HAS EVER WORKED BEFORE.**

There are many genetic diseases where nothing has worked before and now with glycomics and without drugs we are seeing astounding successes in many conditions. In more serious diseases combining supplementation with standard therapy appears to be most effective. Virtually no abnormal condition or status fails to benefit from enhanced nutrition.

Glycomics is working so good that it invites a type of research that is the easiest of research – called reverse engineering. You accomplish the "impossible" and then use reverse

engineering to discover at the molecular level **WHY** it works.

Here at The Endowment for Medical Research we may have accomplished a major breakthrough in Parkinson the first quarter of 2006. Reports will be forthcoming in published papers.

WHERE HEALTHCARE IS HEADED

Whole organs are transplanted today with outstanding success. Before long, corrected DNA strands may be transplanted to reprogram the body to correct genetic diseases. What is the potential damage to such DNA manipulation? Right now, we do not know.

While we applaud advancements in healthcare, there are three pathways that may render these transplant concepts unnecessary in many cases:

1. Prevention of genetic damage by not allowing toxins to do their dastardly deed by removing them from the body.
2. Correction of the genetic damage before the onslaught of the pending disease.
3. Actually reverse the damage already done and correcting the corrupted DNA that orchestrates the assembly of bioactive compounds that conduct life.

EXISTING EVIDENCE

There is existing evidence in glycomics that the missing parts can and do correct chromosomal damage. Indeed, this has been proven at Texas A&M University.

David L. Busbee, PhD on the A&M faculty of the Genetics Department has for the last number of years conducted research in glycomics and cancer. Recently his microarray technology work has resulted in the study of altering gene expression.

Dr. Busbee's department has just received a NIOSH grant to identify the genes that are known to be associated with Parkinsons, and to see if there is a link between exposure to various chemicals (pesticides, herbicides, plasticizers) that might be correlated with onset of Parkinson.

A paper of Dr. Busbee's findings will be submitted to Human Environmental Toxicology. The study will show a correlation between exposure to diethylphthalate (a plasticizer in polycarbonate bottles) and altered gene expression. One hundred percent (100%) of all tested male children in the US have DEP metabolites in their urine. DEP is known for its reproductive toxicity. Nine point three percent (9.3%) of all US male children are reported to have ADD or ADHD.

Do not try to contact Dr. Busbee or call his lab as that could jeopardize the research!

Dr. Busbee will present his work at the Second Annual Glycomics Medical Conference in October 6, 7, 8, 2006 at The Woodlands Waterway Marriott Conference Center just north of Houston. For more information go to www.endowmentmed.org.

The University of Texas Medical Branch (UTMB) Galveston, Texas and M. D. Anderson were conducting a projected longitudinal study in 2005 of children on Ritalin. They abruptly terminated the study when they learned that 100% of the participating children put on Ritalin had developed DNA damage just ninety days into the study.

The glycomic ripple powered by the force of nature is integrating into traditional medical practice to equip healthcare professionals to do a better job in helping more people for less money.

A movie short entitled ***The Glycomic Ripple, Powered by the Force of Nature*** is scheduled for release in October. Healthcare professionals who embrace this new science will be ahead in their field and those who resist it will be left behind.

The Second Annual Glycomics Medical Conference October 6, 7, 8, 2006 will report on the most recent developments in glycomics. To pre-register go to the website www.endowmentmed.org or www.glycomicsconference.com

It is important to realize that glycomics is the science of the operating system (OS) that processes the DNA programs and will give us verification of proper sequencing and let us know the way it should be and how to fix it when the circuitry is not working right.

Visit our website often www.endowmentmed.org and check out the Health NEWS, Stem Cell NEWS, and Kids NEWS.