

Epigenetic Inheritance and Cellular Health

News of the possibility that T2 diabetes could be passed from person to person piqued our interest because our epigenetic modeling had identified such a cellular mechanisms as being a near certainty.

<http://www.sciencemag.org/news/2017/08/could-diabetes-spread-mad-cow-disease>

Proof-of-Concept

The following link provides validation for the fact that epigenetic abnormalities can be passed from generation to generation without mutating “genes.”

<https://medicalxpress.com/news/2017-07-epigenetics-inherit-genes.html>

Objectives of this Document

1. Provide a high level overview of the tenets of epigenetics that can be independently verified by members of the scientific community
2. Establish the role of MCFIP as focusing on creating models for use by the scientific community.
3. Provide examples of education for discussion purposed that must take place on various levels to compensate for shortcomings relative to cellular health that have evolved over the past ninety years.

Tens of thousands of hours have been dedicated to develop a tool to stimulate rethinking of sequencing now that genomic theories have been proven to be skewed following the identification of the 5th nucleobase;

i.e. making the A - C - T and G alphabet impractical as the basis from which causes of chronic diseases can be modeled.

The website www.MCFIP.net offers open source information for the epigenomics model that encompasses physical science to provide verifiable explanations for use by researchers that compensates for the skewed genome sequencing model that has evolved.

Tabs for on the website for Discoveries and Modeling in Progress include numerous examples of outcomes that can be verified by interested parties for the primary causes of chronic diseases; i.e. when epigenetic modeling based on physical science is applied.

Many global research centers are pursuing epigenetics as an integral part of their efforts. However, to our knowledge, none of these efforts produce results that can identify the primary causes of chronic diseases that can be prevented or treated more cost effectively.

The Genesis of the MCFIP Epigenetic Model

In 2007, Michael Miller; Ph.D. and William McFaul developed a hypothesis that cellular level imbalances could be inherited and passed from generation to generation without mutating genes. They identified breast cancer inheritance of Ashkenazi Jews as the proof-of-concept example.

At that time, the discipline of epigenetics was just emerging and until now, researchers in the discipline had not understood or applied minerals and elements as factors for changes in cellular mechanisms.

By applying the dynamics of principles of quantum mechanics and particle physics to physical chemistry and then to epigenetics, McFaul was able to develop a comprehensive array of hypotheses for epigenetic

applications that could create chronic diseases when imbalances between interactions of elements occurred at the cellular level.

Given the fact that hypotheses in science are worthless unless peer-reviewed research provides validation, McFaul and his team continued their modeling but were forced to wait for confirming research. One of the most significant hypotheses was the theory that genomic sequencing was flawed because a 5th nucleobase was overlooked during the initial work by Watson and Crick.

It was not until 2012 when research at Weill Medicine in NYC confirmed the existence of the 5th nucleobase that the epigenetic modeling methods and supporting tools developed by MCFIP gained significance. However, the same protocols for validation of hypotheses still applied.

Gradually, global research identified pieces of cellular mechanisms that encompassed interactions and imbalances but they fell short of using elements and imbalances as the foundation for causes of chronic diseases. An innovative website was designed to provide ongoing updates for DNA repair based on validated research that confirm hypotheses developed by the MCFIP team. The What We Have tab on the website includes an Overview to explain how and why the website has been developed in such a non-conventional format.

Education Is Crucial

Given the following verifiable facts, education for cellular health must occur at many levels that include but are not limited to the following:

- Between scientific disciplines in order to neutralize models in practice that are inadequate. Integration of input to create translational science to support translational medicine must take

place. In our opinion, the first phase of this process should be the refinement and application of epigenetic modeling as a tool for research to support bioinformatic applications.

- Means of hastening the application of validated scientific findings for use in clinical practice and the means of updating practices promptly as new validated research emerges
- Education of children and adults who are not savvy in biology or science in order to understand cellular health. Because the human body is comprised 100% of cells that include bacteria, such knowledge based on facts can be essential to support life and prevent chronic illnesses.

Highlights of Key Factors

Scientists and clinicians must following linear learning to transition from existing theories into ones that encapsulate concepts that incorporate physical science to rectify shortcomings of an incomplete DNA alphabet.

For discussion purposes, the following are provided for use during discussions to summarize the flow of information that must be shared and vetted for viability.

- Cytokines can be proven have minerals and elements as their foundations
- Interactions involving antagonistic and agonistic relationships between elements are known to exist in physical chemistry. Failing to apply physical chemistry to cellular mechanisms has prevented the ability to understand how and why chronic diseases evolve.
- Roles of the three cytokines that are neuropeptides must be understood as well as how they interact

- Neurohormones are byproducts of neuropeptides. Understanding their roles and the consequences of imbalances is critical.
- Epigenetic activities include cell surface signaling created from catabolic activity on neuropeptides that are cytokines with gasotransmitter as constituents.
- Defining the roles of numerous natural epigenetic signaling molecules that have been assigned designations as vitamins and used as nutritional supplements. Failing to apply the principles of Paracelsus (dose determines the poison), abuses (overuse) of these epigenetic signaling molecules can disrupt life-sustaining mechanisms that provide cellular health. Note: Natural “vitamins” are crucial for cellular health. However, excessive levels and inappropriate formulations can create serious cellular aberrations. Unless cellular level mutations are prevented or corrected, their epigenetic roles will be inherited by multiple generations and dramatically expand the instances of copy error mutations.

The MCFIP website is designed to initiate discussions with members of the scientific community using only facts. At the same time, it is imperative to enhance the knowledge of the business support and development professionals in corporations because they that must allocate the time to the rethink the viability of current products and services that are predicated based on skewed genomic theories.

Unfortunately, a narrow focus on any facet of bioscience can inhibit innovation and corporate growth. The principles of innovation disruption put forth by Clayton Christensen cannot be ignored because they can allow competition the opportunity to comprehend and apply next generation applications in science that can disrupt business models and strategies with serious fiscal consequences for shareholders and owners.

In terms of education, unless planning for early education of children is activated promptly, a void will exist where the lack of knowledge can cause mutation of cellular mechanisms that can allow unnecessary human suffering to continue. Examples of issues that must be addressed as part of education of children are outlined in the link for Cellular Health Education on the tab on the website for What We Have.

In our opinion, rather substantial income opportunity exists as part of the global need to educate non-scientists in all facets of cellular health.

MCFIP's role is model development. Research applications and education other than the initial phase with TBD partners are not within our strategic plan.