In 2005, The Center for Modeling Optimal Outcomes made one of a series of discoveries relative to the epigenome that could dramatically reduce global healthcare costs and offer far reaching humanitarian benefits.

To refine and enhance these initial discoveries, The Center formed MCFIP as an entity to share findings with global organizations, corporations and agencies to refine and enhance the models being developed by MCFIP for application by the scientific community.

Explanations for epigenetics that encompasses physical science with mineral and element involvement can be initially intimidating to anyone; even if they have a good knowledge of biology.

With time being valuable due to hectic schedules, MCFIP decided to select several examples of shortcomings or flaws that have occurred as bioscientific research progressed over the past several decades without an explicit model that identifies cellular mechanisms. In other words, the following are provided as talking points with the objective being to stimulate the allocation of time to understand how an epigenetic model based on physical science can prevent chronic diseases.

Note: Numerous additional causes of chronic diseases that can caused by shortcomings in research can be shared with interested parties. Individuals merely need agree to allocate less than 30 minutes to understand what went wrong, when and how as bioscientific research evolved that can result in the unnecessary death of millions of people globally unless these issues are rectified.

Immune Defenses and Transferrins

The family of epigenetic signaling molecules known as transferrins include lactoferrin, apolactoferrin and hololactoferrin. Countless studies have established these iron - manganese (SOD2) based signaling molecules as being antimicrobial (killing viruses, fungus, parasites and bacteria) as well as being anticancer.

Formed from byproducts of the cytokines Interferon gamma and Interleukin 13, independent verification can identify their constituents as being:

DNA Repair – Immune Defenses

All of the following are iron – manganese based with the amino acids regulating on –off activation.

Lactoferrin --------glutamic acid - alanine - aspartic acid.
Hololactoferrin----phenylalanine - tyrosine - tryptophan
Apolactoferrin---- histidine - arginine – lysine

Alternative designations are coproporphyrin, porphyrin and uroporphyrin.

With a non-disclosure agreement in place, MCFIP can provide its verifiable findings for the explanations for the specific roles of each form of the transferrins (antifungal/and viral as opposed to anti-parasitic as well as anticancer).

The dynamics of interactions and imbalances between minerals and elements within cells based on ionic polarity and self-assemby can create agonistic or antagonistic relationships. Being iron - manganese based, the ratio of interactions of these crucial immune defenses can be disrupted by other minerals or elements; e.g. elements in the cytoplasm of the cells that bind to or displace levels of either iron or manganese.

During the process of modeling the constituents of the transferrins, the following document came to our attention. https://www.ncbi.nlm.nih.gov/pubmed/9208284

How could aluminum enter the body and create intracellular imbalances with manganese by disrupting the ratio with iron? Aluminum has been used for decades as an adjuvant for vaccines, in deodorants and in many other products in the food chain.

It is important to note the MCFIP is not part of an antivaccine movement. To the contrary, as epigenetics evolves, vaccination-like activities can become a treatment strategy to restore imbalances between extracelluar activities. With that said, we are concerned over the need to select adjuvants and preservatives that will not cause cellular abnormalities.

With the transferrins being a primary antimicrobial and anticancer immune defense, we are urging the global scientific community to revisit how disruption of the transferrins can be prevented.

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BRCA and Cancers

Using the following explicit and replicable tool for the identification of cell surface signaling molecules with IL-32 as the example, non-scientists can independently verify the primary cause for BRCA mutations.

http://www.mcfip.net/upload/Cell%20Surface%20Signaling%20Molecule%20Formation.pdf

From IL-32 numerous “cascades” of amino acids can be formed;three are threonine - serine and magnesium.

Using this process, three forms of BRCA can be identified through the use of bioinformatic search. We assert that BRCA1 and 2 mutations are the result of overexpression of BRCA3.

Calcium – threonine – magnesium (BRCA1)
Calcium – serine – magnesium (BRCA2)
Calcium – cysteine – magnesium (BRCA3)

Anyone with access to a powerful Internet search engine can identify cysteine as the elemental constituent of vitamin C and, with data mining, calcium and magnesium will be found to be additional elements that are the basis of vitamin C.

Summary

If DNA repair defenses that include apoptosis and ferroptosis are mutated, excessive vitamin C can disrupt BRCA1 - 2 and create cancers. However, if natural defenses are active, cancers may not occur. This factor is crucial because imbalances between BRCA1 and 2 do not mean that cancers will be an outcome. We can explain other physiological outcomes from excessive vitamin C that can be easily verified by using bioinformatic search.

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Vitamin E and Cancers

When our physical science modeling was applied to the two classes of vitamin E, the constituents of the alpha, beta and gamma forms of tocopherol matched those of the three neurosteroids i.e. pregnenolone, progesterone and DHEA.

The other forms of vitamin E (the tocotriensols) were identified as being selenium – zinc based subunits of IL-8. The concept of subunits is explained above when a gasotransmitter such as nitric oxide is subjected to catabolic activity.

Given the fact that two forms of vitamin E and be verified, outcomes can vary dependent upon which form of vitamin E is used in one's diet; tocopherol – neurosteroid or tocotriensols and selenium based. The following is provided for use during discussions that establish hazards associated with excessive levels of selenium-based vitamin E.
http://www.health.harvard.edu/blog/selenium-vitamin-e-supplements-increase-decrease-prostate-cancer-risk-201402287059

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Antioxidants and Cancers

http://www.mcfip.net/upload/Head%20and%20Neck%20Cancers%20-%20Causal%20Paths.pdf

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HPV16 and 18 and Cancers

http://www.mcfip.net/upload/Cancer%20and%20Antioxidants.pdf