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Mini Review

Targeting the Cause of Cell Pathology-Elimination of the Non-Degradable Proteins Restores Tissue Homeostasis and Health

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Abstract

Molecule Establishing Membranes Signaling (MEMS) is an antidote targeting the residues of the non-degradable sequences of protein. These modified sequences of proteins lead to cell degeneration or cancers. MEMS leads to their elimination, restoring cell homeostasis. MEMS has many advantages for restoring cell homeostasis over other techniques, such as stem cell transplantation: it is non-invasive, safe, and efficient.

Globalization of Thinking and Support in Science

It is difficult to imagine that in 21st century, despite all science progress, Medicine is still struggling to cure diseases without causing side effect harm to the viable cells. Medical paradigm suffers from firmly rooted ideas that small molecules with side effects are the only way to cure diseases, and the future can only lie in genetics, medical devices, cutting or adding things to our organisms. It is not the case. The results showed that removing the non-degradable sequences of proteins allows our organism to restore cell homeostasis.

Failure of the Genetic Theory of the Development of the Aging-Associated Diseases

After 30 years of genetics theory on the aging-associated diseases development, the research switched to metabolomic without any hypothesis or conception. Biomedical research focus on more and more complex techniques to take care of consequences of the diseases, instead of focusing on the root causes of the diseases.

Oxidative Stress and Diseases

PubMed has had over 120K publications on stress and diseases within the last 20 years, and scientists have studied the problem since the 19th century. A lot have been said about the protection from oxygen radicals, but without any critical health protection. Oxidative stress occurs in viral and bacterial infections and trauma, inducing indoleamine-2,3 dioxygenase (IDO). IDO is the anti-oxidative enzyme incorporating singlet oxygen into a tryptophan ring, producing 3-hydroxykynurenine that, after deamination, leads to xanthurenic acid. Xanthurenic acid modifies proteins [1], leading to pathological apoptosis [2]. The modifications of signaling protein 14-3-3 lead to the changes in interactions of the proteins in the cell [3], and the apoptosis caused mitochondrial damage [4].

The Fundamental Discovery of The Mechanism of The Development of The Disease

Xanthurenic acid, our model molecule for the small molecules-induced cell pathology, leads to pathological apoptosis of the cells associated with cell degeneration and mitochondrial damage. The apoptotic cell death is associated with DNA degradation and protein crosslinking [1-5]. Xanthurenic acid binds to the intrinsically disordered sequences of proteins because of their localization in the protein structure and composition. The chemically modified sequences are not degraded in protein turnover and remain in the organs, e.g., blood, as neoantigens (NG). NGs occlude the cells' receptors, making a pathological system that has impaired recognition of antigens. Host cells do not recognize, or identify antigens incorrectly, leading to autoimmune response. NGs are localized in cell membranes and lead to permanent activation of caspases and cell degeneration. Constitutive cell degeneration

occurs in aging-associated pathology, e.g., cardiovascular pathologies, osteoporosis, eye diseases, neurodegenerative pathologies, and joint degeneration.

Our Innovative Method Against Degenerative Processes: Cure the Root Cause of Pathologies and Restore Cell Homeostasis

The current health market has no molecule to prevent or stop the degenerative process. The small molecules used as drugs accelerate protein modifications. Stem cells degenerate after transplantation into an environment containing non-degradable protein sequences. We established that MEMS removes non-degradable sequences of proteins, an essential root requirement to improve health. MEMS works on the cell membrane. MEMS targets the primary cause of the pathology, liberating receptors from the non-degradable residues of proteins. In presence of MEMS, receptors recognize the non-degradable proteins as antigens, and boost cell immunity against them. MEMS has been an efficient and safe in humans to heal infections and age-associated degeneration and prevents the development of cancers. MEMS, taken sublingually starting from five micrograms per week, eliminates the modified protein through the whole organism.

This fundamental discovery of the mechanism of diseases have been healing humans for 14 years. MEMSs are essential for health, but still struggles to be put on the market. This discovery of the mechanism of the diseases, did not have any financial support [6] since it's disruptive with mainstream medical initiatives. Our bodies do not only need medicine to take care of the consequences of the diseases. Our discovery shows our bodies are capable of healing when root causes of the diseases are taken care of at early stages.

Acknowledgement

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Conflict of Interest

Malina H (www.axanton.com) declared a conflict of interest while she developed the research, from 2005 to the present, without sponsoring, and has patented Intrinsically Disordered Sequences technology targeting non-degradable proteins, the cause of pathologie**s.**

References

1. Malina H Z (1999) Xanthurenic acid provokes formation of unfolded proteins in endoplasmic reticulum of the lens epithelial cells. Biochem Biophys Res Commun 265: 600-605.
2. Malina H Z, Richter C, Mehl M, Hess O M (2001) Pathological apoptosis by xanthurenic acid, a tryptophan metabolite: activation of cell caspases but not cytoskeleton breakdown. BMC Physiol 1:7.
3. Malina H Z, Frueh B E (2003) Abnormal signalling of 14-3-3 proteins in cells with accumulated xanthurenic acid. Biochem Biophys Res Commun 310: 646-650
4. Malina H Z, Hess O M (2004) Xanthurenic acid translocates proapoptotic Bcl-2 family proteins into mitochondria and impairs mitochondrial function. BMC Cell Biol 5: 14.
5. Malina H Z (2011) System in biology leading to cell pathology: stable protein-protein interactions after covalent modifications by small molecules or in transgenic cells. J Biomed Sci 18: 7.
6. Malina H Z (2023) Mechanism of Diseases: Non-Degradable Protein Sequences or Genetic Modifications? Nov Res Sci 13: 1-3.