KARNA - KELEA Assisted Restoration of Nature's Allostasis

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Abstract

Synthetic chemicals are increasingly being added to the environment to modify natural processes with the intent of reversing inflicted damage and/or attempting to improve upon existing functions. These efforts tend to be expensive and to lose some of their effectiveness over time. Moreover, they may induce unanticipated adverse effects, not the least of which are due to the synthetic chemicals remaining within the environment. Nature has the intrinsic capacity to modify its processes in response to changed conditions. These modifications comprise natural adaptations to retain optimal functions. Nature's allostasis refers to the range and versatility of these adaptative responses, which can involve multiple components within any given ecosystem. Yet, there are limits to these allosteric adaptations, primarily because the required amounts of energy may not be available. These limits are referred to as tipping points, beyond which there are persisting functional impairments. Nature uses an energy that is referred to by the acronym KELEA (Kinetic Energy Limiting Electrostatic Attraction). Providing disordered ecosystems with added KELEA is proving to be an inexpensive, more effective, and non-toxic alternative to using synthetic chemicals. The added KELEA is intended to restore Nature's capacity for allostatic adaptations and, thereby, regain normal functional activity. This article cites several published health, agricultural, and industrial applications of KELEA involving the use of fluid-activating volcanic material-derived Kiko pellets. The potential worldwide cost savings achievable by replacing many of the currently used chemical-based modifications with KELEA-based approaches are likely to be in the trillions of dollars. Moreover, there are certain energy-based applications for which there are no chemical-based alternatives. Educational programs, coupled with clear documentation of benefits, will be key factors in accepting the concept of KARNA – KELEA Assisted Restoration of Nature's Allostasis.

Introduction

Throughout much of history, human civilizations have adapted to their environments, which have remained largely predictable over many generations. Beginning with the Industrial Revolution and exacerbated by the consequential growth in human populations, the world's environments have undergone major changes that have negatively impacted the welfare and diversity of plants and animal wildlife. In more recent years, the quality of human life in many parts of the world has been adversely affected by environmental changes. There is an increasing prevalence of chronic illnesses, crop failures, droughts, fires, and overt pollution of the air and many of the World's waterways. With an estimated 250 billion tons of yearly production [1], synthetic chemicals are considered the major contributing factor to environmental pollution. Chemicals, including pharmaceuticals, are also widely considered the answer to improving health and reversing environmental damage. This article challenges this assertion by suggesting an energy-based alternative. It is helpful, nevertheless, to review the progress occurring in biological and environmental sciences.

Biological research primarily focuses on discovering details of the chemical pathways that sustain living processes. The major theme of current research is to identify and, thereby, explain various anomalies, which can impair normal living functions. Additional endeavors seek ways to improve life, such as increasing

longevity. The studies can range from the analysis of single chemical reactions to the biochemistry of whole cells and entire organisms. There are also analyses of the complex interactions of multiple life forms with one another and with their physical environments. Groupings of the interactions within the latter category are referred to as ecosystems [2].

The driving motivation for much of the current research is the discovery of patentable ways of modifying biological and environmental elements so that the discoveries can be monetized. This is easier for narrowly defined aberrant biochemical pathways that can be presumptively linked to specific human illnesses. The findings lead to therapeutic attempts to chemically alter the aberrant cellular biochemistry on the premise that the interventions will specifically correct the identified anomalies. It is more likely that the interventions will concomitantly affect other aspects of cellular biology causing various adverse side effects. These can be hidden or dismissed because of the failure of full corporate disclosures and conflicts of interest biases by regulatory officials, respectively. Of greater concern are unforeseen long-term consequences, which can result in catastrophic disasters, some of which are never openly discussed. The emergence of AIDS from the use of chimpanzees in the testing of polio vaccines is a likely example [3].

Environmental endeavors to add, remove, or modify components within disordered ecosystems are even less effective and more prone to unintended adverse consequences. Numerous unknown relationships may exist within complex ecosystems that only become apparent as the adversities emerge. Moreover, seemingly distinct ecosystems may also be shown to depend on one another with extended adverse consequences. The risks of uncontrollable spreading of environmental and health-related damage particularly apply to genetic manipulations that seek to alter the cellular biochemistry of certain types of plants and animals. The use of virus vaccines and sub-viral components falls within this category [3-5] It is hard to ensure that introduced modified genes or infectious agents will not undergo interspecies transfer. This has already occurred with the renegade cellular and bacterial genes identified in stealth-adapted viruses [5]. Certain of these viruses arose from polio vaccines produced in cultured cells from cytomegalovirus-infected monkeys [3-5].

Nature's Allostasis and its Tipping Points

This article adopts the view that Nature is intent on maintaining normal functions. Within a given range of anomalies, it can do so through adaptations that minimize the potential disruptive impacts of the various anomalies. Maintaining function through adaptation is referred to as Nature's allostasis [6-7]. In contrast to homeostasis in which there is a preset single optimal mode of function, allostasis allows for multiple functional modes within a biological system.

Life requires energy, as does Nature's adaptations to altered circumstances. Three levels of energy can be envisioned [8]. The lowest level is for survival. Next is the energy required for specializations, which are the unique characteristics of various individual components that collectively sustain ordinary functions. The third level is the added energy for allostatic adaptations in response to changed circumstances, such as trauma, environmental changes, toxic chemicals, invasive species, etc. Accordingly, anomalies in Nature can persist because there is insufficient energy for corrective allosteric adjustments.

The limits of self-corrective allostatic adaptations are embodied within the term "tipping points" [9]. From being rare occurrences, failures of ecosystems are becoming more common leading to the extinction of certain species, progressing climate changes, soil erosion, depletion of food nutrients, pollution of major waterways, etc.

KELEA (Kinetic Energy Limiting Electrostatic Attraction)

Given sufficient additional energy, Nature can adjust to an aberrant component to restore functionality. Somewhat outside the thinking of mainstream science, there is a proposed life force energy that is more fundamental than the life energy obtained through photosynthesis and food metabolism. Many names have been applied to the proposed energy, including spiritual, zero-point, scalar, biofield, orgone, chi, prana, hado, etc. [10]. KELEA, an abbreviation for Kinetic Energy Limiting Electrostatic Attraction, is a preferable term since it allows for quantitative measurements. It is descriptive of the proposed force, which is required to

prevent the fusion and resulting annihilation of electrostatically attracted opposing electrical charges [11]. Water can be a carrier of KELEA for many of its beneficial life force activities. The added KELEA increases the kinetic activity and vapor pressure of water through the loosening of hydrogen bonding. KELEA also reduces the water bonding of electrolytes, increasing the ease of electrical conductivity in water containing electrolytes. Oscillating and fluctuating electronic devices and various dipolar compounds that create Maxwell-Wagner discharges [12] can increase the local levels of KELEA, which can then enter nearby water.

Kiko and Other Water Activating Technologies

Volcanic rock materials that are pulverized, heated to partially melting temperatures (up to approximately 1,200^{o} Celsius) slowly cooled, and then pelleted provide low-cost items to increase the KELEA levels in water. The pellets, marketed as Kiko Technology, have been recently shown in conjunction with biochar to eliminate the cyanobacteria (blue-green algae) contamination in several tidal basins (sloughs) of Spirit Lake, Iowa, and in a contaminated lagoon in Alameda County, California [7]. This was followed by the sequential return of aquatic, land-based, and flying wildlife to the treated environments. An advantage of the pellets is that they can work unaided without losing activity over time. Various other means are available to add to the KELEA level of water (13). Each should assist in restoring normality to a disordered ecosystem.

Beneficial Microbes

The working hypothesis is that the energized water favors the growth of beneficial microbes over the growth of pathogenic microbes. Renewed dominance of beneficial microbes is likely to facilitate the flourishing of the next level of life forms, which, in turn, further contribute to the restoration of the ecosystem. This can lead to a stepwise or allostatic process, not dissimilar to the addition of musicians with their different instruments in a flash mob rendition of classical orchestral pieces. Continuing with the musical analogy, with added energy, it is possible to diminish interference by minor discordant components, which would otherwise be disruptive of the basic melody.

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The provision of added energy is viewed as the primary corrective measure before attempts at modifying the internal workings of complex biological and ecological systems. The goal is to better support Nature's intrinsic capacity for self-repair. The term KARNA has been suggested for KELEA Assisted Restoration of Nature's Allostasis. Yet, seeking to assist Nature by providing additional KELEA runs contrary to the economic interests of those profiting from the use of chemicals or other means of affecting specific metabolic pathways. This will undoubtedly lead to difficulties in effectively promoting the benefits of low-cost energy-based interventions.

These difficulties can be addressed by convincing demonstrations of both environmental-related and health-related benefits of utilizing different means of providing additional energy. KELEA can be easily delivered using KELEA activated water, either by itself or within closed containers, water activating soluble or insoluble compounds, and fluctuating or oscillating electrical devices. Other methods are also available. The method chosen is likely to be influenced by the type and severity of the disorder and the urgency of the needed restoration. A publicly available repository of ongoing results relating to the different methods used in various applications should be established. A broad sampling of some of the major applications is listed in Table 1.

Economic Benefits

Topping the list are the enormous economic benefits of using KELEA activated water instead of pharmaceuticals in the prevention and therapy of human and animal diseases [14]. Similarly, KELEA can largely replace synthetic fertilizers and pesticides by providing more nutritious, less expensive, and healthier foods. The use of KELEA can also lead to improvements in major industrial processes. For example, by reducing the specific heat capacity of water, heating, and cooling in HVAC systems require less energy [15], as does the production of steam to power turbines. KELEA activated water reduces the formation and quickens the dissociation of scale in metal water pipes [15]. KELEA activated water can hasten the removal of debris from

items in a manner that is like the action of detergents. There can be a finer dispersion of insoluble materials, such as concrete, flour, and paints (unpublished). Enzymes can work more efficiently in KELEA activated water [16]. This relates in part to the potential conversion of KELEA into chemical energy. KELEA can also add chemical energy to fuels resulting in greater mechanical work upon combustion [17-18]. Although the mechanism is not yet understood, the levels of radioactive emission from at least some isotopes are reduced when exposed to Brown's gas, a vaporized form of KELEA activated water [19]. The energy associated with ionized plasmas is similarly being proposed as a means of transmutating radioactive nuclei into stable nuclei (https://aureon.ca)

None of these applications has been put into widespread use. Yet, each application would greatly offset the enormous amounts of money currently being spent on conventional chemical interventions. Indeed, the approximate worldwide financial savings of replacing unnecessary chemicals with energy-based solutions plus savings from the improved efficiency of natural processes for which no chemical solutions exist are enormous (Monetary estimates that were mainly obtained from ChatGPT are included in Table 1). The overall savings exceed $2 trillion. These calculations do not address the many secondary benefits of creating a sustainable world based on "Harmonizing with Nature" rather than forcing Nature beyond its tipping points. Elevating the levels of KELEA can add to the enjoyment of life for many individuals and reduce the prospects of anti-social criminal behavior, unfair competition, and the need for Nations to prepare for and repeatedly engage in wars. The potential savings could then be well into many trillion dollars.

Implementation of KELEA-mediated applications will also help address the increasing financial disparity between rich and poor nations. Regulatory controls in developing countries are often lacking leading to insurmountable costs of using sufficient conventional chemical means to remediate environmental damage, promote flourishing agriculture, and provide adequate healthcare. Expensive chemicals, including pharmaceuticals, are primarily produced, and marketed by corporations based within the richer nations. This is further adding to the imbalance of the world's resources. Again, "Working in Harmony" with Nature, rather than having to purchase expensive chemicals, will mostly benefit underfunded individuals and nations.

Summary

Humankind has benefited from major changes, such as the harnessing of heat, electricity, industrial processes, genetic engineering, computers, etc. To help motivate a paradigm shift, MI Hope Inc. will continue to use the terms KELEA and Nature's Allostasis. Another possibly useful term is adamovivus, which is a coined Latin word for the love and appreciation of life. Many descriptive words can be applied to the moving from chemically interfering with Nature to supporting Nature with added energy. Hopefully, the KELEA Revolution will come quickly.

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Table 1. Energy-Based Applications that Could Replace and Extend the Use of Costly Chemicals

APPLICATIONS of KELEA INCLUDING THE USE OF KELEA ACTIVATED WATER	CONVENTIONAL CHEMICAL INTERVENTIONS & APPROXIMATE YEARLY SAVINGS ($ BILLIONS)	
Health & Wellness	Medical Pharmaceuticals	$1,480
Animal husbandry	Vitamins, diets, pharmaceuticals	$ 29
Agriculture, Aquaculture	Fertilizers, pesticides	S 162
Increase beneficial vs. pathogenic microbes	Adding beneficial microbes, GMO	$ 37
Water pollution with restoration of wildlife	Flocculation, filtration, chemicals	$ 35
Prevents and removes scaling on metal pipes	Descaling chemicals	$ 12
Cleaning of clothes, equipment, surfaces	Detergents	$ 54
More efficient fuel combustion	Nil: Savings ~10% total costs	$ 383
Better heat transfer in HVAC, steam turbines	"	$ 10
More evenly made bread, concrete, paints	"	$ 5
Increased enzyme mediated reactions	"	$ 5
Reduces radioactivity and costs of storage	"	$ 50

Figure 1: This is a caption