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RESEARCH ARTICLE

THE NEW DISCOVERY INCLUDING THE PROTON CONDUCTANCE BASED NEW METABOLIC EQUATION, CLOSED 9 STEPPED CYCLE AND SYSTEM MODELS OF THE HUMAN BODY

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Abstract

We made new discovery in the field of Biology and medicine by joining the three new conception as at first: new metabolic equation based on the proton conductance as metabolic medium as "Donators of proton as glucose molecules (first stage of proton conductance) + membrane redox potentials in the three-state line system + O₂ (hemoglobin of the pulmonary capillary-8-th stage, hemoglobin of tissue-87 trillion cell-surrounded capillary-9-th stage) + ADP + Pi + (H⁺ + nH + memb.space - proton gradient-4-th stage) = (ATP + heat energy-5-th stage) + H₂O (5-th stage) + (nH⁺_{matrix}) + CO₂(second stage of proton conductance), at second : Closed 9 stepped cycle and at third: System models of the Human body. Closed 9-stepped cycle, proposed by M.Ambagameans that after completing all 9 stages, the system returns to its original state. The movement of protons is cyclic, with no net loss or gain of protons in the overall system, just a continuous movement within the defined cycle. The cycle being closed ensures that the process is efficient and self-sustaining, as it doesn't require new inputs from outside once the cycle is running. In biological systems, such cycles are important for energy conservation and regulation of processes like ATP synthesis. The disturbance, happened in the First stage of proton conductance: oxygen channeling to the mitochondria of 87 trillion cells; oxygen channeling: oxygen has been assumed to diffuse across cell bodies; very low oxygen solubility in the cytosol, reported High-solubility 'channels' likely formed by the endoplasmic reticulum by hemoglobin-bearing cytochrome P450 molecules; accelerated oxygen diffusion via lipid droplets; lateral diffusion within mitochondrial membranes; mitochondria; release of hydrogen atoms, protons, and electrons from food molecules; Krebs cycle under the influence of the ninth stage as release of oxygen from hemoglobin may be one of reasons of the pathological change of exergonic favorable reactions or spontaneous reactions, which no needed new inputs from outside, and self-sustaining as after completing all 9 stages, the system returns to its original state, which occurred including at first: new metabolic equation based on the proton conductance as metabolic medium as "Donators of proton as glucose molecules (first stage of proton conductance) + membrane redox potentials in the three-state line system + O₂ (hemoglobin of the pulmonary capillary -8-th stage, hemoglobin of tissue-87 trillion cell-surrounded capillary-9-th stage) +

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ADP + Pi + (H⁺ + nH + memb.space - proton gradient-4-th stage) = (ATP + heat energy-5-th stage) + H₂O (5-th stage) + (nH + matrix) + CO₂(second stage of proton conductance), Closed 9 stepped cycle and System models of the Human body.

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Introduction:-

The discovery by M.Ambaga revolves around a new metabolic equation and the concept of proton conductance within a closed, 9-step cycle. This model provides a fresh perspective on how the human body generates energy, focusing on the movement of protons and electrons through biological processes. The cycle incorporates steps involving glycolysis, the Krebs cycle, and the electron transport chain, and it highlights how protons are transported across membranes in cells, contributing to the formation of ATP, the energy currency of the cell. In this model, the proton gradient plays a critical role, particularly in stages related to hemoglobin's oxygen and carbon dioxide exchange in the bloodstream, emphasizing the interaction between oxygen, ATP production, and metabolic processes. The system also proposes that this cycle occurs across 87 trillion cells in the body, suggesting a widespread, integrated mechanism that regulates energy and metabolism at the cellular level. Ambaga's work is particularly significant for understanding how metabolic processes are interlinked with proton conductance and how this impacts energy production and possibly aging.

Any disturbances,happened in the Eighth stage of proton conductance, where proton released from R-state hemoglobin enhances CO₂ release in the respiratory membranes of the lungs; the dramatic increase in the partial pressure of oxygen drives the binding of oxygen to deoxyhemoglobin; O₂ binding triggers the transition of T-state hemoglobin to R-state hemoglobin and the disturbance occurred in the Ninth stage , where binding of protons to T-state hemoglobin increases CO₂ uptake from respiring tissues, as R-state hemoglobin gives up its bound oxygen to respiring tissues and subsequently transitions to the T-state, it drives the release of oxygen from hemoglobin to the mitochondria of 87 trillion cells. Carbon dioxide and hydrogen ions combine with hemoglobin, which has released oxygen from hemoglobin, which diffuses out of red blood cells and plasma into tissues (the mitochondria).

The closed 9-stepped cycle of proton conductance by M. Ambaga refers to a theoretical model or mechanism that explains the conductance of protons through specific proteins or structures, such as those found in biological membranes. Proton conductance is crucial in processes like cellular respiration and photosynthesis, where protons are transported across membranes to create a proton gradient that drives ATP synthesis. In such a cycle, protons are moved in a stepwise manner through a series of intermediate states, often involving conformational changes in the protein that allow the proton to be transported from one side of the membrane to the other. The "9-stepped" aspect suggests that this process involves nine distinct steps or transitions, which might include various binding and release events, changes in the protein structure, and the transfer of protons between different sites. The term "closed cycle" implies that the process is cyclic, returning to its initial state after completing all steps, which is a characteristic of many biological processes to ensure efficient and continuous operation.

Result:-

During our investigations became clear that the pathological increase of glucose in the second compartment – blood serum location and pathological decrease of glucose in the first compartment of Body (Tab 1,2 and Figure 1,2) because of decrease of entry of glucose to metabolic medium as “Donators of proton as glucose molecules (first stage of proton conductance) + membrane redox potentials in the three-state line system + O₂ (hemoglobin of the pulmonary capillary -8-th stage, hemoglobin of tissue-87 trillion cell-surrounded capillary-9-th stage) + ADP + Pi + (H⁺ + nH + memb.space - proton gradient-4-th stage) = (ATP + heat energy-5-th stage) + H₂O (5-th stage) + (nH + matrix) + CO₂(second stage of proton conductance).

AnyDisturbationof the Normal thermodynamicprocessese, conducted in the Closed 9-stepped cycle of proton conductance lead to pathological change of the exergonic favorable reactions or spontaneous reactions, no needed new inputs from outside, self-sustaining, after completing all 9 stages, the system returns to its original state.

The disturbance,happened in the First stage of proton conductance as oxygen channeling to the mitochondria of 87 trillion cells, oxygen has been assumed to diffuse across cell bodies; very low oxygen solubility in the cytosol, High-

solubility 'channels' likely formed by the endoplasmic reticulum by hemoglobin-bearing cytochrome P450 molecules; accelerated oxygen diffusion via lipid droplets; lateral diffusion within mitochondrial membranes; release of hydrogen atoms, protons, and electrons from food molecules; Krebs cycle under the influence of the ninth stage as release of oxygen from hemoglobin.

In such way, also disturbance, happened in the second stage of proton conductance as where carbon dioxide, generated by the Krebs cycle in the mitochondria of 87 trillion cells, and third stage, where conducted the formation of NADH, FADH, Coenzyme Q, and Cytochrome C oxidase, the fifth stage, where conducted the formation of ATP, heat energy, and metabolic water may be one of reasons of the pathological change of exergonic favorable reactions or spontaneous reactions, no needed new inputs from outside, self-sustaining, after completing all 9 stages, the system returns to its original state.

Conclusion:-

We made new discovery in the field of Biology and medicine by joining the three new conception as at first: new metabolic equation based on the proton conductance as metabolic medium as "Donators of proton as glucose molecules (first stage of proton conductance) + membrane redox potentials in the three-state line system + O₂ (hemoglobin of the pulmonary capillary -8-th stage, hemoglobin of tissue-87 trillion cell-surrounded capillary-9-th stage) + ADP + Pi + (H⁺ + nH + memb.space - proton gradient-4-th stage) = (ATP + heat energy-5-th stage) + H₂O (5-th stage) + (nH + matrix) + CO₂(second stage of proton conductance), Closed 9 stepped cycle and System models of the Human body.

Closed 9-stepped cycle, proposed by M.Ambagameans that after completing all 9 stages, the system returns to its original state. The movement of protons is cyclic, with no net loss or gain of protons in the overall system, just a continuous movement within the defined cycle. The cycle being closed ensures that the process is efficient and self-sustaining, as it doesn't require new inputs from outside once the cycle is running. In biological systems, such cycles are important for energy conservation and regulation of processes like ATP synthesis

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At first: new metabolic equation based on the proton conductance as metabolic medium as "Donators of proton as glucose molecules (first stage of proton conductance) + membrane redox potentials in the three-state line system + O₂ (hemoglobin of the pulmonary capillary -8-th stage, hemoglobin of tissue-87 trillion cell-surrounded capillary-9-th stage) + ADP + Pi + (H⁺ + nH + memb.space - proton gradient-4-th stage) = (ATP + heat energy-5-th stage) + H₂O (5-th stage) + (nH + matrix) + CO₂(second stage of proton conductance), at second: Closed 9 stepped cycle and at third :System models of the Human body, proposed by M.Ambaga means that after completing all 9 stages, the system returns to its original state. The movement of protons is cyclic, with no net loss or gain of protons in the overall system, just a continuous movement within the defined cycle. The cycle being closed ensures that the process is efficient and self-sustaining, as it doesn't require new inputs from outside once the cycle is running. In biological systems, such cycles are important for energy conservation and regulation of processes like ATP synthesis.

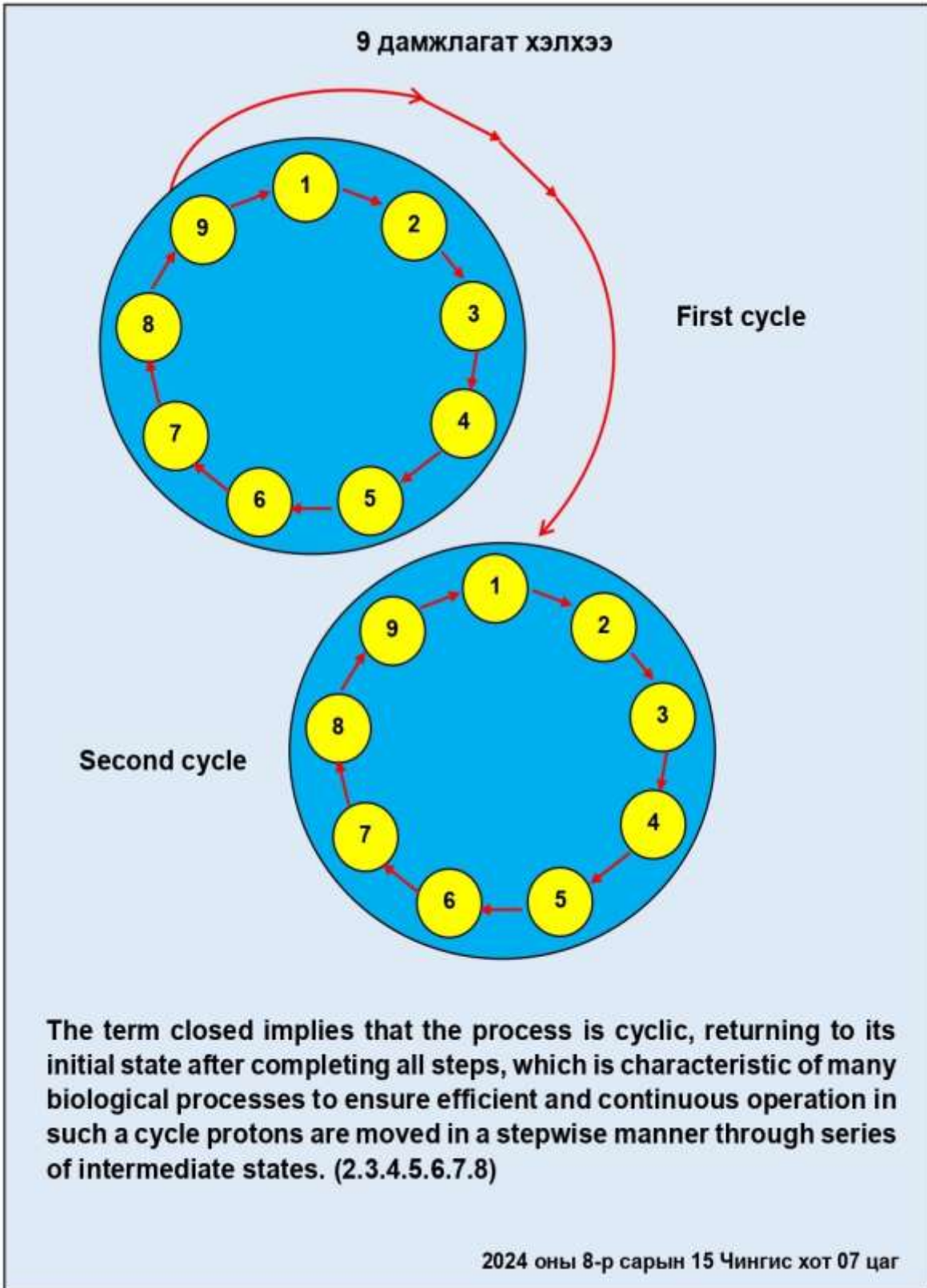


Figure 1:- The closed cycle of proton conduction by M.Ambaga, that is process cyclic, returning to its initial state after completing all steps.

Figure -2.The Full Cycle of Proton and Electron Conductance inside the Human Body, Consisting of 9 Linked Stages.



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