



ISSN: 0975-833X

RESEARCH ARTICLE

THE MEMBRANE - REDOX POTENTIALS THREE - STATE LINE SYSTEM DEPENDENT - FULL 9 STEPPED CYCLES OF PROTON CONDUCTANCE AND THE EVOLUTION BASED BIOLOGICAL MECHANISM OF OBESITY

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ARTICLE INFO

Article History:

Received 03rd November, 2016

Received in revised form

20th December, 2016

Accepted 14th January, 2017

Published online 28th February, 2017

Key words:

The membrane, Redox potentials three, State line system dependent, Full 9 stepped cycle of proton conductance, Evolution based biological mechanism of obesity.

ABSTRACT

By us postulated that evolution based biological mechanism of obesity have been connected with these processes as shift from the slow developed bioenergy accumulating regulations of early evolution times in the form as $ADP + Pi + H^+ + nH + memb.space$, and the shortage of membraneredox potentials three - state line system, lack of O_2 acceptor to more powerful energy accumulating systems as "Donators + membraneredox potentials three - state line system + $O_2 + ADP + Pi + H^+ + nH + memb. space = (ATP + heat energy) + H_2O + nH + matrix + CO_2$ " and formation of 4 compartments of body (Ambaga and Tumen-Ulzii, 2015). The appearance of mitochondrial power systems in the form as "Donators + membraneredox potentials three - state line system + $O_2 + ADP + Pi + H^+ + nH + memb.space = (ATP + heat energy) + H_2O + nH + matrix + CO_2$ " (Ambaga and Tumen-Ulzii, 2015) had give to organisms the possibility to accumulate the excessive saturated fatty acids inside body in 3-th compartment of 4 compartments of body as normal regulations and but this bioenergy accumulating mechanism sometimes turned to main reasons to cause the obesity.

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Citation: Ambaga, M., 2017. "The membrane - redox potentials three - state line system dependent - full 9 stepped cycle of proton conductance and the evolution based biological mechanism of obesity", *International Journal of Current Research*, 9, (02), 46282-46284.

INTRODUCTION

Obesity is defined as excess adipose tissue, located in 3-th compartment of 4 compartment of human body. The excess adiposity or obesity causes increased levels of circulating fatty acids in 2-th compartment of 4 compartments of human body (Ambaga and Tumen-Ulzii, 2015). It would be more interesting establish the relationship between the maintaining of increased solid beta states, consisting of saturated fatty acids with high levels of red potentials conducting the slow flow of protons and electrons in the full 9 stepped cycle of proton conductance, located in 14 trillion somatic cells and the evolution based biological mechanism of obesity.

Results and conclusion

By us postulated that evolution based biological mechanism of obesity have been connected with these processes as shift from the slow developed bioenergy accumulating regulations of early evolution times in the form as $ADP + Pi + H^+ + nH + memb. Space$, and the shortage of membraneredox potentials three - state line system, lack of O_2 acceptor to more

powerful energy accumulating systems as "Donators + membraneredox potentials three - state line system + $O_2 + ADP + Pi + H^+ + nH + memb.space = (ATP + heat energy) + H_2O + nH + matrix + CO_2$ " and formation of 4 compartments of body (Ambaga and Tumen-Ulzii, 2015). The evolution based shift from one cell to multicells had been accompanied with conversion of first slow developed bioenergetic regulations as $ADP + Pi + H^+ + nH + memb. space$ to powerful energy conserving systems as "Donators + membraneredox potentials three - state line system + $O_2 + ADP + Pi + H^+ + nH + memb.space = (ATP + heat energy) + H_2O + nH + matrix + CO_2$ " (Ambaga and Tumen-Ulzii, 2015), which had give to organisms the possibility to accumulation of excessive saturated fatty acids inside body in 3-th compartment of 4 compartments of body, but these processes had been bear the risk of of provocation of obesity 1-th stage of the full 9 stepped cycle of proton conductance inside human body is distinguished by release of proton, electron from food substrates (carbohydrate, amino acids, fatty acids), under the undirect action of oxygen, which have been released from membrane surroundings of erythrocyte in the 9 -th stage of full cycle, from this stage started the proton conductance within cycle. The maintaining of increased solid beta states, consisting of saturated fatty acids with high levels of red potentials conducting the slow flow of protons and electrons in

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Figure 1. The membrane - redox potentials three - state line system dependent - full 9 stepped cycle of proton conductance inside human body

this stage of the full 9 stepped cycle of proton conductance, located in 14 trillion somatic cells served the role of reasons to cause the evolution based biological mechanism of obesity. 2-th stage of the full 9 stepped cycle of proton conductance inside human body is distinguished by transfer of proton, electron to NADH, FADH₂ as hydrogen atom accompanying with release of CO₂, by which stage continued the proton conductance within cycle. The maintaining of increased solid beta states, consisting of saturated fatty acids with high levels of red potentials conducting the slow flow of protons and electrons in this stage of the full 9 stepped cycle of proton conductance, located in 14 trillion somatic cells served the role of reasons to cause the evolution based biological mechanism of obesity. 4- th stage of the full 9 stepped cycle of proton conductance inside human body is distinguished by transfer of electron to cytochrom C without accompanying proton, which one is stages of continuity of the proton conductance within cycle.

The maintaining of increased solid beta states, consisting of saturated fatty acids with high levels of red potentials conducting the slow flow of protons and electrons in this stage of the full 9 stepped cycle of proton conductance, located in 14 trillion somatic cells served the role of reasons to cause the evolution based biological mechanism of obesity. According to the full 9 stepped cycle of proton conductance inside human body proposed by Ambaga and Tumen-Ulzii (2015) 6- th stage of the full 9 stepped cycle of proton conductance inside human body is distinguished by creation of proton gradient in the intermembrane space of mitochondria and following transfer of proton to matrix through ATP synthase, which is played important role in continuity of the proton conductance within cycle. The maintaining of increased solid beta states, consisting of saturated fatty acids with high levels of red potentials conducting the slow flow of protons and electrons in this stage of the full 9 stepped cycle of proton conductance, located in 14 trillion somatic cells served the role of reasons to

cause the a evolution based biological mechanism of obesity. Also 7- th stage of the full 9 stepped cycle of proton conductance inside human body is distinguished by formation of metabolic water in the mitochondrian matrix by oxidation of proton by activated oxygens i.e, by protonation of activated oxygen by matrix proton, which is one of a previous stages of continuity of the proton conductance of the full cycle and in this connection the increase of the fluid alpha states , consisting of unsaturated fatty acids with high levels of oxy potentials conducting the intensive flow of protons and electrons in this 7- th stage of proton conductance inside 14 trillion somatic cells would be lead to decrease the accumulation of excessive saturated fatty acids inside human body in 3-th compartment of 4 compartments of body.

9- th stage is distinguished by entry of oxygen from lung, formation of HbO_2 , proton combine with hemoglobin (generation of HbH) which promotes the release of oxygen from hemoglobin, oxygen diffusion to all cells conditioning the release of proton, electron from food substrates. The maintaining of increased solid beta states , consisting of saturated fatty acids with high levels of red potentials conducting the slow flow of protons and electrons in this stage of the full 9 stepped cycle of proton conductance, located in 14 trillion somatic cells served the role of reasons to cause the a evolution based biological mechanism of obesity. The appearance of mitochondrial power systems in the form as "Donators + membraneredox potentials three - state line system + O_2 + ADP + Pi + H^+ + $n\text{H}$ + memb. space = (ATP + heat energy) + H_2O + $n\text{H}$ + matrix + CO_2 " (Ambaga and Tumen-Ulzii, 2015) had give to organisms the possibility to accumulate the excessive saturated fatty acids inside body in 3-th compartment of 4 compartments of body as normal regulations and but this bioenergy accumulating mechanism sometimes turned to main reasons to cause the obesity .

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