

## THE EFFECT OF FREE RADICAL OXIDATION ON THE LIPIDS AND MEMBRANES

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In the paper the effect of free radical oxidation process on the lipids and membranes in the living cells is considered. The impact of substances (antioxidants) inhibiting the free radical damages in tissues is discussed. In human body free radicals and reactive oxygen species are generated by various endogenous systems. In order to support the normal physiological state of the organism it is necessary to bring down the amount of free radicals produced and that is possible by providing an adequate number of antioxidants either produced internally or introduced from outside. If the rate of production of free radicals overwhelms the ability of the body to balance their amount with the available antioxidants, an oxidative stress may develop leading to the onset of various pathological states. In relation with the development of such processes an application of Semyonov's equation is analyzed [1,2].

### References

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2. Gamrekeli D, Akhobadze V., Khatiashvili N.: On Some Aspects of Quantum Biophysics, Rep. Enlarged Sess. Sem. I. Vekua Inst. Appl. Math. Tbilisi, 2015, vol. 29, pp.38-41. [http://www.viam.science.tsu.ge/enl\\_ses/vol29/gamrekeli.pdf](http://www.viam.science.tsu.ge/enl_ses/vol29/gamrekeli.pdf).