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CLIMATE CHANGES AND BIO-HELIOPHYSICAL PRESSING ON THE HUMAN DURING GEOMAGNETIC DEPRIVATION: FORECAST FOR BIOSPHERE AND HUMANITY

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We believe that at sequence of climatic and heliophysical events of last time the main role have our magnetosphere. According to the data of some geophysicists from the end of the 20th century the full vector of the magnetic field of the Earth is gradually weakening. Accordingly, the buffering properties of the Earth magnetosphere, which protects biosystems from excess solar proton-electron beams, are decreasing. Using modelled weakening of the geomagnetic field into original device cosmobiotron we had to answer the question: what are the possible biotropic consequences of heliophysical pressing for further human development? Our main aim was the development at this condition of non-medicinal helio-gene-preventive technologies. Significant differences ($P < 0.05$) between volunteers in the experimental and control groups on the dynamics of electric, psychophysiological and other parameters, coupled with the appropriate genetic markers (genes D4, B1, TNF), and intensity of heliophysical factors at different stages of ontogeny of the examinees and their parents were showed. The phenomenon of heliophysical expression of genes, manifested at modelling of the short-term prolonged geomagnetic deprivation, was opened. It is shown, that our new technological means, so as informational holograms and drinking water, patented in Russia, has helioprotective properties and contributes to significant positive inversion of the functional dependence of activity of many human functional systems on heliogeophysical impacts, increasing at geomagnetic deprivation. The necessity for the creation of a global system of geoecological human life support in conditions of spreading heliogeophysical and climatic changes on our planet were shown: 1) In conditions of a simulated weakening of the geomagnetic field, more than 500 times, into cosmobiotron, the phenomenon of heliophysical gene expression is revealed, significant associations of the parameters that reflect the functional activity of the brain, the state of psychophysiological, intellectual and creative processes with genetic markers (genes B1 and D4) and heliophysical situation in the pre-and postnatal ontogeny of the examinees. 2) The heliophysical gene expression, manifested at the prolonged short-term geomagnetic deprivation of a man contributes to lowering the threshold of his sensitivity to the information-holographic signals of the cosmogonic content associated with the dynamics of electrophysiological parameters and the length of D4 gene alleles. 3) Jerks and secular excursions of the geomagnetic field, accompanied by the weakening of its induction and the increased access to the biosphere of solar-galactic corpuscular flows, increasing the measure of openness of biological systems can have evolutionary consequences for a man. 4) The non-medicinal means on the basis of drinking water treated of holograms Aurora or into the portable devices with weakened geomagnetic field, which reduces the excess heliomagnetotropic reactions of a man and promotes prevention of crisis states (on an example of patients with arterial hypertension) was developed and successfully tested. 5) The necessity of global geo-ecological life support system in conditions of changing climate-heliogeophysical environment, the ongoing reduction of the geomagnetic induction and the increased access of solar-galactic corpuscular flows to the biosphere was scientifically based. 6) Treatment of drinking water, in our opinion, leads to such changes in its nanocluster structure, energy-information capacity and biocatalytic activity that provide helio-geno-protective effect in relation to a man on the supramolecular, cellular, systemic and organism levels.

Biography

Alexander Trofimov in 1973 has obtained a diploma of the Doctor on Novosibirsk State Medical University. He completed the degree of Doctor of Medical Sciences in 1988, later joined as ISA Professor in 1999, served as Academician of American biographic Institute (ABI) in 2010, as General director and Chief of Scientific council of International Scientific Research Institute of Cosmoplanetary Anthropoecology named after Academician V P Kaznacheev from 1994 to 2017, Chief of Laboratory Helioclimatopathology of Science Center of Clinical and Experimental Medicine of Siberian Department of Russian Academy of Medical Science (until 2010). He also did his DSc (H C Colombo, 1996), DSc of Open International University for Complementary Medicine in 1998. From 1975 till 2017 he wrote more than 300 scientific works, 7 monographs and has 7 patents. His basic research interests are Heliobiology, Cosmic Anthropoecology, Geoecology, Cardiology. He was awarded with honorary certificate for achievements in the field of Heliocology and Geocosmic medicine by Cambridge Biographical Institute (GB) and with the Medal of achievements in field of Cosmic Anthropoecology by American Biographic Institute (ABI) and included in the list of 500 Greatest Geniuses of the 21st Century book (Raleigh, North Carolina, USA, 2009) and was awarded a medal of Russian Federation of Cosmonautics (2001) and the American Medal of Honor for Contribution to Cosmic Anthropoecology (ABI-USA, 2007)

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