

CURRICULUM VITAE
of Prof. Vyacheslav N. Krutko*, D.Sc.



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Qualifications

D.Sc., Forecasting and Control of Public Health, Institute for Systems Analysis, Russia

Ph.D., Human and Animal Physiology, Institute of Medical and Biological Problems, Russia

M.S., Physics of Living Systems, Moscow Institute of Physics and Technology, Russia

Awards:

2007 - Diploma of the Winner of Moscow Competition "The Best Projects for Moscow & Muscovite's Health"

1997-2003 - Winner of the personal State scientific grants

1993 – 2001 – Winner of the team scientific grants from:

- Russian Federation Ministry of Science and Technology
- Russian Federation Ministry of Ecology
- The US Institute of Sustainable Communities
- The International Soros Foundation

1994 - Diploma of Professor, Chair of Informatics and Control of Public Health Protection

1994 - Diploma of "The Winner of the All-Russia Competition on the best concept of Russia's transition to sustainable development"

Positions:

Head of Laboratory of Systems Analysis and Information Technologies in Medicine and Ecology on the base of the Russian Academy of Sciences Institute for Systems Analysis (from 2015 - on the base of the Federal Research Center "Computer Science and Control" of Russian Academy of Sciences)

Professor, I.M. Sechenov First Moscow State Medical University (Preventive Medicine Department)

Director General, National Gerontology Center (Russia)

Main research lines:

- Development of informatics tools for modeling and forecasting the Human Health during medical intervention and under changing Environment;
- Computer expert support systems for preventive Medicine;
- Elaboration of methods and techniques for Gerontologic Informatics, in particular for processes of aging modeling, estimation and forecasting of biologic age and life expectancy, computer systems for diagnostics and prophylaxis of aging;
- Development of aging prophylaxis as a new line in science of the XXI century.

Present research interests: mechanisms of aging, aging prevention, anti-aging medicine, public health

Research experience

- Member of Expert Teams for developing the following State Conceptions:
 - Informatics Development in Russia
 - State Program of Public Health Protection and Strengthening in Russia
 - Complex Program of Developing the Arctic Region until the year 2005
 - Ecological Safety of Russia

* Name spellings Kroutko or Krut'ko were used in some publications

- Sustainable Development of Russia
- Informational Support and Structure of the System Evaluating Effectiveness of the Programs for Decreasing Infant Mortality in the USSR Regions
- State Program of Environment Control and Rational Use of USSR Nature Resources of XIII Five-Year Plan and Long-Term Outlook until the year 2005
- Federal Program "An Elderly Generation"
- Goal-Oriented Program "Geroprotectors"
- Federal Program "Active Life Prolongation"
- Principal Investigator of the following National Projects:
 - Health Effects of Moscow Vegetable Supply System;
 - Informatics Tools of Assessment of Public Health Dynamics Under Global Climatic Changes;
 - Systems Analysis of Factors Influencing Public Health in Moscow;
 - Analysis of Factors Determining Public Health in Different Regions of Russia;
 - Health Forecast Under Expected Environmental Changes;
- Principal Investigator of the National Project "Education" grant: Development of a family of virtual instruments and teaching materials for a new form of education. 2008.
- Principal Investigator of The Ministry of Education and Science of Russia grant "Development of Internet technology for personalized support of a health-saving". 2015.

Science-organizational activity:

- Chairman of the Applied Gerontology Section of Scientific Council "Gerontology and Geriatrics" under Russian Academy of Medical Sciences and Ministry of Health;
- Chairman of the Problem Commission for System Analysis, Methods and Organization of Prophylaxis of Aging and Medico-Social Problems of Elderly People of Academic Council under Russian Federation Ministry of Health;
- Russian Director-Coordinator of the International Educational Program "Human Response to Environmental Stress";
- Member of Executive Committee of Association of Experts in Regenerative Medicine;
- Member of World Society of Interdisciplinary Anti-aging Medicine;
- Expert, Ministry of Education and Science of the Russian Federation;
- Organizer of 8 international and 15 national scientific conferences;
- Member of editorial boards of:
 - Scientific Journal "Journal of Regenerative Medicine";
 - Scientific Journal «Advances in Aging Research»;
 - Electronic Scientific Journal "Medical University"
 - Electronic Scientific Journal "Clinical and Experimental Medicine"
 - Annual "Ageing Prevention" of the National Gerontology Center;
 - Issues of the Institute for Systems Analysis;
 - Journal of Scientific Innovations (JSI).

Membership:

- Member of the following Scientific Councils:
 - I.M. Sechenov Moscow Medical Academy (Preventive Medicine Faculty);
 - Institute for Systems Analysis of the Russian Academy of Sciences;
 - Russian Academy of Medical Sciences (Council "Fundamental Bases of Health");
 - "Scientific medical society of gerontologists and geriatrists";
- Elected Active Member of the International Academy of Informatization under U.N.O.
- Member of "Gerontology and Geriatrics" Section of Academic Council under Russian Federation Ministry of Health;
- Member of "Human Ecology" Section of the Russian Academy of Sciences
- Member of the New York Academy of Sciences.

Scientific Reports and Publications: International Conferences (58), scientific publications (more than 200 including 16 books), educational materials (8).

Key publications, where the main results of the previous studies are represented:

- Classification, Analysis and Use of Biological Age Parameters for Predicting Life Expectancy // Human Physiology. 1995, V. 21, N 6, pp. 555-557
- Fundamental Problems of the Study of Life expectancy // Herald of the Russian Academy of Sciences, 1996, V. 66, No 6, pp 507-511.
- Diet as a Means of Life Span Prolongation // Human Physiology. 1996, V. 22, 5, pp. 626-629
- Aging: The Mechanisms and Retardation Ways // Moscow, Bioinform Services, 1997, 240pp. (In Russian)
- Ageing Prevention (Krut'ko V. N. et al ed). NGC Annual. Vol. 1 - 6. 1999-2004 (In Russian)
- Prophylaxis of Aging: Contours of a New Science // Human Physiology, Vol. 26, No. 5, 2000, pp. 629-635.
- Diagnosis of Aging. Report II. Age Dynamics of Correlation Between the Biological Markers of Aging. Human Physiology, **28** (1): 82-87, January - February, 2002
- Senescence Prophylaxis as a Systems Technology // Herald of the Russian Academy of Sciences, 2006, Vol. 76, No. 5, pp. 456-462.
- Fundamental Mechanisms of Geroprophylaxis // Moscow, Bioinform Services, 2002. 464 pp. (In Russian)
- Mathematical Base of Gerontology. (Krut'ko V. N. ed.) A series "The Problems of Gerontology", Vol. 4. Moscow, URSS publ. 2002. 384 p. (In Russian)
- Approaches to the General Theory of Health // Human Physiology, Vol. 20, No. 6, 1994. Krut'ko V. N., Dontsov V. I., Systems Mechanisms and Models of Aging. Moscow. LKI publ. 2008. 336 p. (In Russian).
- Dontsov V. I., Krut'ko V. N., Trukhanov A.I. Anti-Aging Medicine: Fundamental Bases. Moscow. URSS publ. 2010. 678 p. (In Russian).
- Dontsov V. I., Krut'ko V. N., Kudashov A.A. Virtual Instruments in Biology and Medicine. The Educational Process and Scientific Research. Moscow. Lenand publ. 2010. 216 p. (In Russian).
- Krut'ko V. N., Smirnova T.M. Human capital: the problem and resource of innovative development of Russia. Moscow. Tcifrovichok publ. 2012. 227 p. (In Russian).
- Gavrilov M.A., Dontsov V.I., Krut'ko V. N. Anti-aging medicine: a practical guide. Moscow. Tcifrovichok publ. 2012. 202 p. (In Russian).
- Moskalev, A., Chernyagina, E., Tsvetkov, V., Fedintsev, A., Shaposhnikov, M., Krut'ko, V., Zhavoronkov, A. and Kennedy, B. K. (2016), Developing criteria for evaluation of geroprotectors as a key stage toward translation to the clinic. Aging Cell. V. 15. P. 407-415. doi: 10.1111/acel.12463

My research field (key words): anti-aging medicine, geroprophylaxis, means of life span prolongation, Systems Mechanisms and Models of Aging, Mathematical Base of Gerontology, Senescence Prophylaxis, Aging: The Mechanisms and Retardation Ways, Analysis and Use of Biological Age, Active Longevity, Ageing prevention, Reguvenation, Retardation of aging, longevity therapeutics, Healthy Aging, Life extension, mechanisms of aging, aging modeling, estimation and forecasting of biologic age and life expectancy, computer systems for diagnostics and prophylaxis of aging.