



IN MEMORIAM OF LEONID F. ROZANOV

31.07.1946—23.11.2025



On November 23rd, 2025, the Ukrainian scientific community grieved a profound loss — the brilliant scientist, mentor, leader, Doctor of Biological Sciences, Professor Leonid F. Rozanov passed away. His entire scientific activity was related to cryobiology.

Leonid F. Rozanov was born on July 31st, 1946 in the city of Kem (Karelian Autonomous Republic, Russia) and graduated from the seven-year school there. Late his parents moved to work in Kharkiv, Leonid's whole life was connected with this city and Ukraine. A Russian by origin, he self-perceived himself a Ukrainian and was a true patriot of our country until the end of his life. After graduating from the Radiophysics Faculty of Kharkiv State University with a degree in biophysics, Leonid F. Rozanov devoted his life to science. At first, he worked as a senior engineer at the Ukrainian Institute for Advanced Training of Physicians at the Laboratory of Low-Temperature Preservation of Bone Marrow and Blood of the Ministry of Health. Afterwards the Institute for Problems of Cryobiology and Cryomedicine of the National Academy of Sciences of Ukraine (IPCC of the NAS of Ukraine) was established in Kharkiv in 1972, and he was as among its first employees. In 1977, Leonid defended his thesis for the degree of Candidate of Biological Sciences, and in 1987 he received the title of Senior Researcher. For a long time, he worked at the Department of Low-Temperature Preservation, and since 1984 to 1996, he headed the Laboratory of Theoretical Grounds of Low-Temperature Preservation of this Department. The results of L.F. Rozanov's scientific

work were summed-up in a dissertation for the degree of Doctor of Biological Sciences. In 2007, he was awarded the title of Professor. In 2014, L.F. Rozanov headed the newly established Laboratory of Phytocryobiology, which became one of the leading structural units of the IPCC of the NAS of Ukraine. His scientific interests were aimed at determining the features of the interaction of cryoprotectants with biological objects of different levels of organization, studying the processes that occur at the stages of cooling and warming of samples. His research has been published in over 100 scientific papers, 2 monographs, and he has authored textbooks for students and scientists in various fields of activity related to research into the effects of low temperatures. From 1978 to 1983, L.F. Rozanov worked as a scientific secretary of the Institute for Problems of Cryobiology of the National Academy of Sciences of Ukraine. With his direct participation, a new specialty "cryobiology" was approved in the list of the Higher Attestation Commission. Under his leadership, 4 candidates of sciences defended their dissertations. He was a member of the Specialized Academic Council, a member of the Editorial Board of the "Problems of Cryobiology" journal and actively participated in the work of the IPCC of the NAS of Ukraine of Ukraine. In addition to scientific and organizational activities, Prof. Rozanov lectured special courses "Cryobiophysics", "Medical Cryotechnologies" at the Department of Biological and Medical Physics of the V.N. Karazin Kharkiv National University.

All his life, Leonid easily embodied his thoughts, hopes, aspirations, and moods in poetry. During his lifetime, he published the book "The Age of the Snake", in the preface to which he noted that "this period of life, 42—55 years, is defined as a period of a particularly acute feeling that life is passing". In February 2022, Prof. Rozanov fell under occupation, and when he and his family managed to leave for Germany, he wrote many new poems there, one of which most corresponds to his feeling of out of the country:

*Soon I will depart, yet not all, not at once,
Somewhere near the pond, we'll meet once again.
A phrase from the treetops will drift in response:
"The passion for life shall forever remain!"
I'll soon pass away to nourish the clover,
And rustle with leaves in the grove where you stand.
Life is so beautiful... and now that it's over,
I know you are right to stay in your homeland.*

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