

ANATOLY I. BYKOREZ



October 29, 2014 marks the 80th anniversary of **Anatoly I. Bykorez**, Doctor of Medical Sciences, Professor, Laureate of the State Award of Ukraine in Science and Technology.

A. Bykorez is a leading scientist in the field of experimental oncology, who made a great contribution to the development of such scientific fields as chemical carcinogenesis, growth factors, environmental oncology. He authored about 170 scientific papers, including 8 monographs.

The studies on the mechanisms of malignant transformation carried out by A. Bykorez in the 60–80^s provided the basis for the concept of the common morphological manifestations of carcinogenesis induced by factors of different nature, such as the chemicals and the ionizing radiation. The findings of these studies were summarized in the monographs “Experimental Tumors of the Liver” (1976) and “Experimental Tumors of the Stomach” (1982), which became go-to books for many oncologists. These studies of Prof. A. Bykorez were honored with the State Award of Ukraine in Science and Technology (1981) and the Award of the Academy of Sciences of Ukraine named after A.A. Bogomolets (1977).

An important and priority area of research by A. Bykorez and his followers deals with growth factors. One aspect of this research is reflected in the monographs “Polypeptide Growth Factors and Carcinogenesis” (1990) and “Transforming Growth Factor” (1994) dedicated to biological regulators of cell proliferation and differentiation. In 1995, A. Bykorez and

his co-authors were awarded the Award of the Academy of Sciences of Ukraine named after A.V. Palladin.

A. Bykorez was at the origin of the development of a new scientific field — environmental oncology. This topic was in focus of the world’s first book “Ecology and Cancer” (1985), and he was one of the authors and editor-in-chief of this book. Here and in subsequent papers, prospects for the development of environmental oncology were outlined, as well as the concept of ecological monitoring of carcinogens was put forward. In 1990, Prof. A. Bykorez was elected the president of the USSR Section of the Institute of Ecology and Cancer (Institut für das Entgeltssystem im Krankenhaus, or InEK).

A. Bykorez contributed a lot to the formation and development of the R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology of the NAS of Ukraine, where he had been working since 1960. Since 1974, he had headed the Department for Modeling of Tumor Process. In the same year, Rostislav Kavetsky invited him to become the deputy director for scientific work. A. Bykorez had held this position for over 20 years and has made an enormous contribution to the development of the scientific potential of the Institute and organization of its structure. All of the above is also true for his role as the Deputy Editor-in-Chief of the international journal “Experimental Oncology”. It is no exaggeration to say that no one issue has come out without a responsible control and editing by A. Bykorez.

A. Bykorez created one of the best schools of thought in Ukraine in the field of experimental oncology. His followers work in Ukraine, USA, England and other countries and remember with gratitude his practical and friendly advice, support and assistance.

Since the very foundation of the specialized dissertation advisory board in oncology, he had worked as the Deputy Chairman of the Board for many years.

After retiring in 1999, A. Bykorez continued to actively cooperate with the editorial board of the journal “Experimental Oncology”, and made very valuable contribution due to his knowledge, erudition and experience. In particular, he was a scientific editor of such books as “Apoptosis and Cancer” by A.A. Philchenkov, R.S. Stoika (1999), “Fas/Fas-ligand System” by Y.M. Stepanov, A.A. Philchenkov, N.E. Kushlinsky (2000) and “Immunology of Malignant Growth” by N.M. Berezhnaya, V.F. Chekhun (2005).

A. Bykorez features remarkable performance, exceptional modesty, accessibility, high culture and commitment.

The team of the R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology of the NAS of Ukraine, the editorial board of the journal “Experimental Oncology”, staff and followers congratulate A. Bykorez with his anniversary and wish him good health and new successes.