

ON THE 60TH BIRTHDAY OF D. N. DALIMOV

D. N. Dalimov, Doctor of Chemical Sciences, Professor, Chairman of the Department of the Chemistry of Natural Compounds of the Chemistry Division of Mirzo Ulugbek National University of Uzbekistan (NUUz), turns 60 this year.

His scientific career began in 1971 when he took a position as Senior Assistant in the Department of the Chemistry of Natural Compounds after completing Tashkent State University. From 1973 to 1980 he was a Scientist in the Department of Bioorganic Chemistry of the Academy of Sciences of the Republic of Uzbekistan (AS RU); from 1981 to 1991, a Senior Scientist of the Institute of Bioorganic Chemistry (IBOC) of the AS RU. For several years Dr. Dalimov was Scientific Secretary of the Institute. Then he continued his career as the Chairman of the Department of Research Planning and Budget of the AS RU. Since 1997, he has been the Head of the Laboratory of Polyphenols of the IBOC of the AS RU.

In 1980, D. N. Dalimov defended his Candidate dissertation; in 1990, his Doctoral dissertation. In 1994, he attained the rank of Professor.

In June 2005 D. N. Dalimov headed the Department of the Chemistry of Natural Compounds of the NUUz. However, his pedagogical career began while he was still a Scientific Assistant of the Department of Bioorganic Chemistry, teaching chemistry in night school.

D. N. Dalimov is a renowned specialist in the area of bioorganic chemistry and the chemistry of natural and physiologically active compounds. His scientific interests include the isolation and structure elucidation of polyphenols and terpenoids; development of the technology for preparing them; modification of these natural compounds and alkaloids; investigation of the fundamental physicochemical principles of supramolecular complexes based on natural compounds, in particular, glycyrrhizic acid; detailed structural features of the active surface of hydrolases, which play an important role in the transfer of nerve signals, studied by substrate—inhibitor analysis. He has participated in the synthesis of over 700 derivatives of alkaloids, polyphenols, and glycyrrhizic and glycyrrhetic acids. He has studied the mechanism of action of several synthetic compounds in artificial and synthetic membranes.

In the last decade, his scientific interests addressed the fabrication of drugs based on low-molecular-weight bioregulators. Along these lines, he prepared effective local hemostatics based on several supramolecular complexes that exhibit not only hemostatic but also decongestive, anti-inflammatory, tissue regenerative, and analgesic properties. He created a hemostatic agent for i.v. administration that surpasses known analogs by its activity, low toxicity, and effectiveness. He developed an effective anti-inflammatory agent based on the supramolecular complex of a glycyrrhizic acid derivative that induced interferon at very low doses and a series of antiviral preparations based on gossypol (Ragosin tablets for hepatitis C, a 1% lotion of megosin used for herpes diseases, suppositories of gosolidon for adults and children to treat chlamydiosis). He developed the effective anti-diarrheal preparation Bektit-M based on local resources. All these preparations are just as effective as foreign analogs and even more effective in some aspects. Since the Republic became independent, he has received licenses for the broad practical application in medicine of five new drugs. For three of them, complete pre-clinical testing has been completed. All regulatory and technical documents have been submitted to the Pharmacology Committee of the Ministry of Health of the RU for approval of wide clinical testing.

D. N. Dalimov is the author of more than 250 scientific publications, including more than 40 patents, 2 monographs, several reviews, and 14 regulations related to the fabrication of drugs. Under his leadership 2 doctoral, 15 candidate, and 14 master's dissertations have been defended. In 2002, he received the title of Accomplished Inventor and Innovator of the RU.

D. N. Dalimov is a member of the Scientific Committee of the Chemistry Department of the NUUz, the IBOC of the AS RU, and Special Committees of the Chemistry Department and the IBOC for awarding candidate and doctoral degrees in the chemical and biological sciences.

D. N. Dalimov is a talented, principled, good-willed, experienced, and careful scientist.