

**TO PROFESSOR  
AMINDZHON ISMAILOVICH ISMAILOV  
ON HIS 70TH BIRTHDAY**



In December 2001, Doctor of Chemical Sciences Professor Amindzhon Ismailovich Ismailov, Honored Scientist and laureate of the Abu Raikhan Beruni State Prize of the Republic of Uzbekistan, leading scientist of the laboratory of polyphenols of the A. S. Sadykov Institute of Bioorganic Chemistry of the Academy of Sciences of the Republic of Uzbekistan (ASRU), celebrated his 70th birthday and 48 years of scientific and community activity.

A. I. Ismailov is a famous scientist in the chemistry of natural compounds. He began his scientific career in 1953 as a graduate student in the Institute of Chemistry of the ASRU.

From 1960 to 1997 he was head of the laboratory of cotton chemistry at the Institute of Bioorganic Chemistry of the ASRU.

The scientific interests of A. I. Ismailov are connected with complex chemical investigations of cotton. He and his colleagues have studied several natural compounds, made certain theoretical generalizations, and achieved practical results such as technology development and commercialization of the growth preparation SLKh, a plasticizer, and the brightening preparation K-1, which is used to produce viscose, among others.

Significant success was achieved in research on polyphenols of plant flavonoids and cotton gossypol. A. I. Ismailov isolated and identified more than 50 anthocyanins, catechols, leucoanthocyanidins and their condensation products, many of which were novel.

Several phytoalexins, which are terpenoid hydroxynaphthaldehydes and hydroxynaphthoquinones, were isolated and identified from cotton infected with fungal wilt.

A comparative study of the physiological activity of many analogs, derivatives of hydroxybenz-, hydroxynaphth-, and hydroxydinaphthaldehydes and their methoxy derivatives revealed certain features of the structure—activity relationships of these compounds. This enabled the creation of a series of highly effective original medicinal preparations based on gossypol. These include gossypol liniment (3%), an antiviral agent used to treat shingles, blisters, and psoriasis; batriden, a low-toxicity immunosuppressor used for kidney allotransplantation, chronic glomerulonephritis, and allergodermatitis; megosyn, an effective treatment for topical and genital herpes; gosalidon, an antichlamydial agent; and a herbal agent for stomach and duodenal ulcers.

Research on anthocyanins resulted in the discovery of natural nontoxic food dyes incorporated into various branches of the food industry.

Professor A. I. Ismailov is the author of more than 250 scientific works, 50 invention disclosures and Uzbek patents, and many regulatory and technical documents. His students have defended 3 doctoral and 12 candidate dissertations.

A. I. Ismailov is a member of the Special Committee and the Editorial Board of the journal *Chemistry of Natural Compounds*. The active scientific and community service of A. I. Ismailov has been acknowledged by many government awards.

Amindzhon Ismailovich is distinguished by his good will and responsiveness in addition to an enormous drive, capability, and sense of responsibility.

The scientific community and editorial board of *Chemistry of Natural Compounds* sincerely congratulate Amindzhon Ismailovich on his jubilee and wish him good health and great creative successes.