

**TO ANNA IVANOVNA GLUSHENKOVA,
ACADEMICIAN OF THE ACADEMY OF SCIENCES
OF THE REPUBLIC OF UZBEKISTAN,
ON HER 75TH BIRTHDAY**



In August, Anna Ivanovna Glushenkova, Doctor of Technical Sciences, Academician of the Academy of Sciences (AS) of the Republic of Uzbekistan (RU), honored worker of the RU, Head of the Laboratory of Lipid Chemistry of the S. Yu. Yunusov Institute of the Chemistry of Plant Substances of AS RU, celebrated her 75th birthday and 53rd year of scientific and society activity.

A. I. Glushenkova is a famous scientist in the area of the chemistry of natural compounds, in particular, the chemistry and technology of lipids. She began her scientific career in 1948 as a graduate student and then lecturer and head of the faculty of lipid technology at Tashkent Polytechnical Institute.

Anaa Ivanovna has worked in the Institute of the Chemistry of Plant Substances since 1961. In 1972 she defended her doctoral dissertation and received the title Professor. Since 1984 A. I. Glushenkova has been a corresponding member; from 1984 to 1989, director of the institute; from 1989 to 1991, a member of the Presidium; and since 2000, an academician of the RS RU.

A. I. Glushenkova and her colleagues investigated lipids and lipophilic components of more than 60 wild and cultivated plants from Central Asia. They first proved the structure of more than 30 oxygenated acids, obtained new data on the fine structure and composition of triacylglycerines, and discovered a class of phospholipids, phosphonolipids, that was new for higher plants. A. I. Glushenkova confirmed the noncoplanarity of gossypol by studying its chemistry.

A. I. Glushenkova devoted much creativity and energy to the development of theoretical and practical bases for processing cotton seeds and developed a method of low-temperature hydrogenation of cottonseed oil for preparation of food hydrogenate. By studying the mechanism of hydrogenation of vegetable oil, she demonstrated triacylglycerine isomerization and observed double-bond migration, which explained the formation of acids with a conjugated system of double bonds during hydrogenation. All oil producers of the RU, until they converted to the extraction method, operated on oil-production technology that used continuous wormgear presses proposed by A. I. Glushenkova and A. L. Markman.

Academician A. I. Glushenkova is the author of ~400 scientific articles, patent disclosures, RU patents, and the monographs "Lipid hydrogenation" and "Gossypol, its derivatives and their use." Anna Ivanovna has contributed much to the education and training of highly qualified specialists. Under her direction 12 candidate and 1 doctoral dissertations have been defended.

A. I. Glushenkova is the Assistant Editor of the journal *Chemistry of Natural Compounds* and chair of the Problem Committee on Bioorganic Chemistry and the Chemistry of Natural and Physiologically Active Substances and has worked as the scientific secretary of the Beruni State Award Committee, a member of the editorial board of *Uzbek Chemical Journal*, Specialized Committees (St. Petersburg, Tashkent), and the Expert Council of the Higher Certifying Committee of Uzbekistan. The active scientific and community service of A. I. Glushenkova has been recognized by many State awards.

Anna Ivanovna has a great intellect and responsiveness along with an enormous capacity for thoroughness and efficiency and a feeling of responsibility for assigned tasks.

The staff of the Institute of the Chemistry of Plant Substances, editorial board of *Chemistry of Natural Substances*, and scientific society sincerely congratulate Anna Ivanovna on her jubilee and wish her good health and continued success.