

Synthesis and structure-activity of nitrogen-containing 5 α -steroids

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It is actual to obtain new derivatives of different classes of steroids, to study their properties, to develop new schemes of synthesis, to improve the existing ones. Purposeful chemical modification of steroidal substances received from plant raw material, which affects the change of biological activity, is important for the development of new medicines. The majority of synthetic steroidal compounds, including nitrogen-containing derivatives, are powerful substances.

In order to receive new potential biologically active compounds the series of new nitrogen-containing 5 α -steroids: oximes, hydrazones, carbazones, pyrazolines, triazoles have been synthesized on the base of tigogenin, the raw material for the synthesis of 5 α -steroids, isolated from plant *Yucca Gloriosa*, introduced in Georgia.

Biography

Nana Barbakadze has completed her PhD at Ivane Javakhishvili Tbilisi State University. She is a senior research scientist at Tbilisi State Medical University. Her field of interest is a chemistry and synthesis of potential biologically active organic compounds. Nana Barbakadze has published over 30 scientific papers and has participated in about 50 international scientific conferences.

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