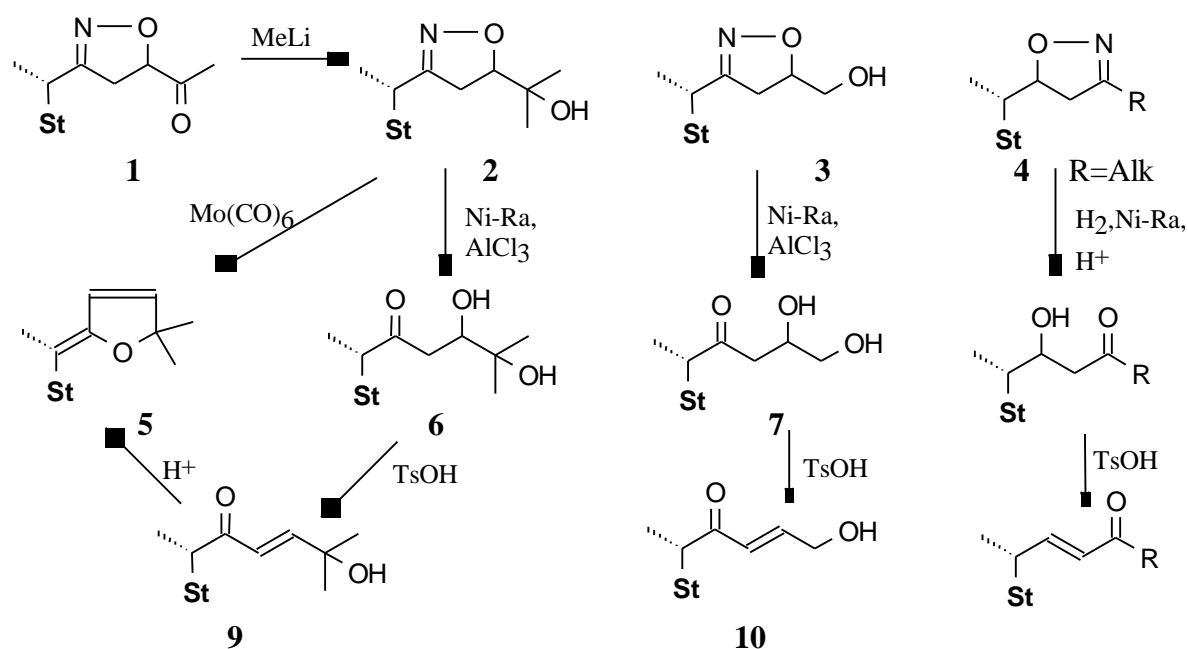


Synthesis of Polyoxidized Side Chains of Steroids *via* Steroidal Isoxazolines

Raissa P. Litvinovskaya, Nadezhda V. Koval, Vladimir A. Khripach

*Institute of Bioorganic Chemistry, National Academy of Sciences of Belarus,
ul.Kuprevicha, 5/2, 220141, Minsk, Belarus*

Starting from the regiomer 20-isoxazolinylderoids **1-4** a number of derivatives **6-8** with the hydroxy functions at the C-22, C-24 and C-25 positions of a steroidal side chain has been synthesized. Compounds of this type are very promising as new synthetic precursors of biologically important natural steroids such as vitamin D metabolites, ecdysones, brassinosteroids, and others.



The splitting of the isoxazoline ring under the action of various reagents and the transformation of the resulting compounds **6-8** into unsaturated ketones **9-11** were investigated. The reaction conditions, structure and spectral properties of the synthesized compounds will be discussed.