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New biologically active organic peroxides

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Traditionally organic peroxides are applied in industry as initiators of free radical polymerization and oxidants. In the last decades, organic peroxides have received considerable attention from chemists and drug design experts, which is associated with a need in the search for drugs for the treatment of parasitic diseases, such as malaria and helminth infections. Peroxides having antitumor or growth-regulatory activity were also documented. In our work we developed methods for synthesis of various types of cyclic and linear peroxides using H_2O_2 and carbonyl compounds. Cyclic peroxides: ozonides, tetraoxanes, and tricyclic monoperoxides demonstrate prospective anticancer and antiparasitic properties. This work was supported by RFBR according to the research project N^o 18-53-15010.

Biography

Alexander O Terentev was born in Moscow, in 1973 and done his PhD degree (2000) and DSc degree (2009). At this time he is Professor in D Mendeleev University of Chemical Technology of Russia, Head of laboratory in N D Zelinsky Institute of Organic Chemistry RAS, and Head of laboratory in All-Russian Research Institute of Phytopathology. His interests are organic chemistry, medical and agricultural chemistry, chemical technology. He published 120 research papers and 30 patents.

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