Thematic Section: Preparative Chemistry.		Full Paper
--	--	------------

Subsection: Organic Chemistry.

Registration Code of Publication: 10-23-15-23

Publication is available for discussion in the Internet as a material of "All-Russian Working Chemical Conference "*Butlerov's Heritage-2011*". http://butlerov.com/bh-2011/Contributed to editorial board: October 22, 2010.

## Synthesis and bioactivity and toxicity study of some

 $^{\circ}$  Anatoly K. Brel,  $^{1*}$  Svetlana V. Lisina,  $^{1+}$  Alexander A. Spasov,  $^{2}$  Anton S. Timofeyev,  $^{1}$  and Julia N. Salomatina  $^{1}$ 

oxy- and aminobenzoic acids derivatives

<sup>1)</sup> Department of chemistry. <sup>2)</sup> Department of pharmacology. Volgograd state medical university. Pavshih boitsov St., 1. Volgograd-131. Russia. Phone: +7 (8442) 38-53-50. E-mail: svlisina@gmail.com

\*Supervising author; \*Corresponding author

**Keywords:** oxybenzoic acids, paraaminobenzoic acid, esterification, alkylation, kinetics, anti-pyretic activity, bacteriostatic action, acute toxicity,  $LD_{50}$ , therapeutic index.

## **Abstract**

The process of oxy- and aminobenzoic esters preparation has been studied. The effect of the origin of the alkylating agent, as well as that of the solvent, and temperature on the ester yield has been monitored. The composition of the synthesized products has been proved with the help of <sup>1</sup>H NMR spectroscopy. The antipyretic and bacteriostatic activities, acute toxicity and therapeutic index of some synthesized compounds have been studied.