## N-ALKOXY-N-CHLOROUREAS IN THE SYNTHESIS OF NEW PHOSPHORUS DERIVATIVES OF N-HYDROXYUREA

Shtamburg V.G.<sup>1</sup>, Kravchenko S.V.<sup>2</sup>, Klots E.O.<sup>1</sup>

<sup>1</sup>Ukrainian State Chemical Technology University, Dnipro, Ukraine

<sup>2</sup>Dnipro State Agrarian and Ecomomic University, Dnipro, Ukraine

svtailor@ukr.net

The different kinds of the substituted ureas use as pharmaceutical materials. The chemical properties of *N*-alkoxy-*N*-chloroureas allow to create the new reaction strategies that give access to such new biological relevant scaffolds. But the nucleophilic substitution of the chlorine atom in *N*-alkoxy-*N*-chloroureas by P- nucleophile remains unstudied.

We have found that *N*-alkoxy-*N*-chloroureas **1a-c** interact with triphenylphosphine selectively forming triphenylphosphonic chlorides **2a-c**. *N*-Alkoxy-*N*-chloroureas **1a,b** react with trimethylphosphite yielding the phosphorus containing ureas **3a,b**.

The compounds **2**, **3** are the unknown kinds of phosphorus containing derivatives of *N*-hydroxyurea and perspective biological relevant scaffolds.