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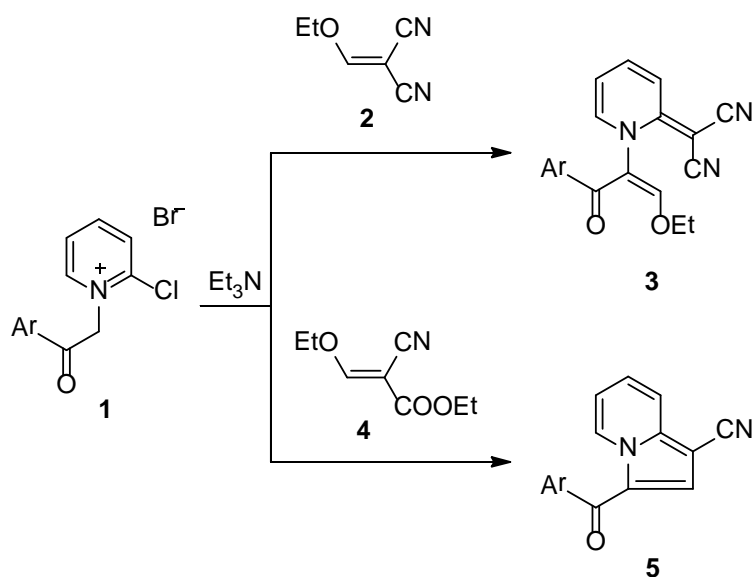
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**Unusual interaction of ethyl 2-cyano-3-ethoxyacrylate  
with N-arylmethyl-2-chloropyridinium bromide**

Krasnikov D.A., Khoroshilov G.E., Fefelova S.R., Demchak I.V.  
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The study of the interaction of N-arylmethyl-2-chloropyridinium salts with activated olefins is a promising and little scantily section of chemistry nitrogen ylides. Previously, it was found that the interaction of the compounds (1) ethoxymethylene malonodinitrile (2) leads to products such as olefins metathesis (3) [1].

However, we investigated interaction of salts (1) with ethyl 2-cyano-3-ethoxy acrylate (4) in ethanol in the presence of two equivalents of triethylamine. This reaction led to the formation of 3-arylindolizine-1-carbonitrile (5) with yield 62-75 %. (Scheme).



Structures of synthesized compound were confirmed on the basis of their spectral data (<sup>1</sup>H NMR, MS, IR).

[1] I.A. Aitov, Yu.A. Sharanin, V.N.Nesterov, Yu.T. Struchkov. Synthesis and structures of 1-[1-(4-R-benzoyl)-2-ethoxyvinyl]-2-dicyanomethylene-1,2-dihydropyridines //Russian Chemical Bulletin. – 1996. – Vol. 45. – N1. – 417-419.



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