

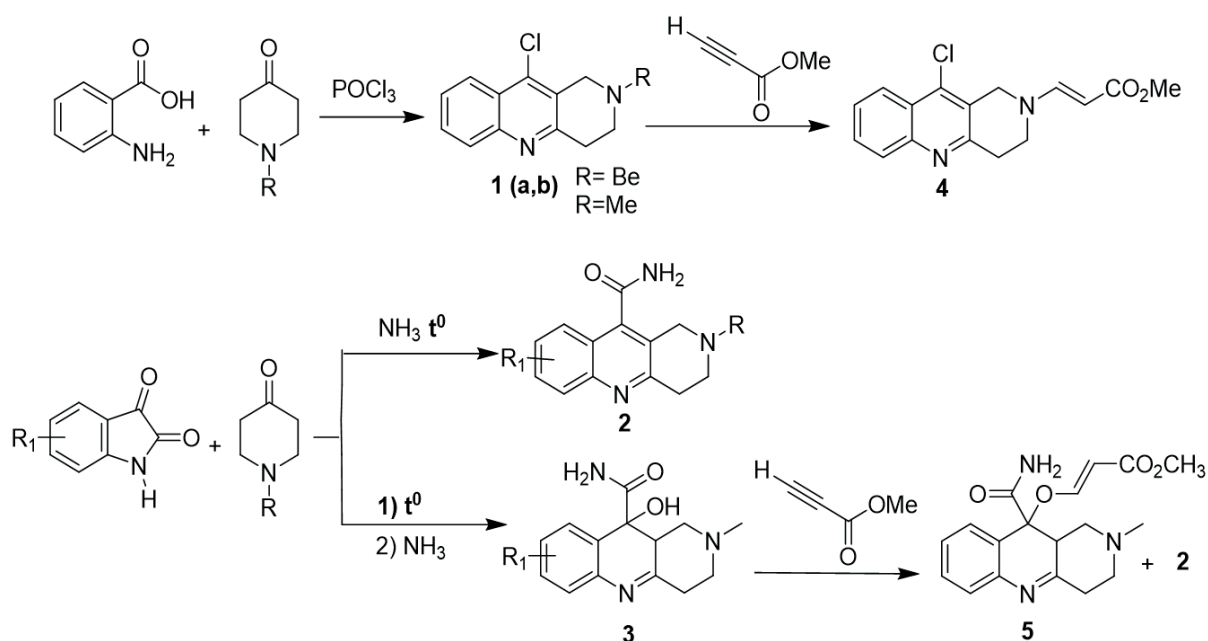
SYNTHESIS OF BENZO[B][1,6]NAPHTHYRIDINES AND THEIR  
CONVERSIONS UNDER ACTION OF ACTIVATED ALKYNES.

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It was previously shown that the interaction of benzonaphthyridines with activated alkynes, depending on the substituent in the 10 positions, yields various products including ylides, 2-vinylquinolines, benzopyridonenaphthyridines<sup>1,2</sup> Benzonaphthyridines are structural analogues of tacrine, so we continued our work toward synthesis of their derivatives to evaluate biological activity of such substances. Here, we report synthesis of benzonaphthyridines 1-3 and products of their interactions with activated alkynes.



## References

1. L.G. Voskressensky, I.V. Vorobiev, T. N. Borisova, and A. V. Varlamov J. Org. Chem. Vol. 73, No. 12, 2008.
2. L.G Voskressensky, T.N Barisova, I.V. Vorob, N.M. Postika, E.A. Sorokina, and A.V. Varlamov. Russian Chemical Bulletin, International Edition, Vol. 57, No. 7, pp. 1547, 2008

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