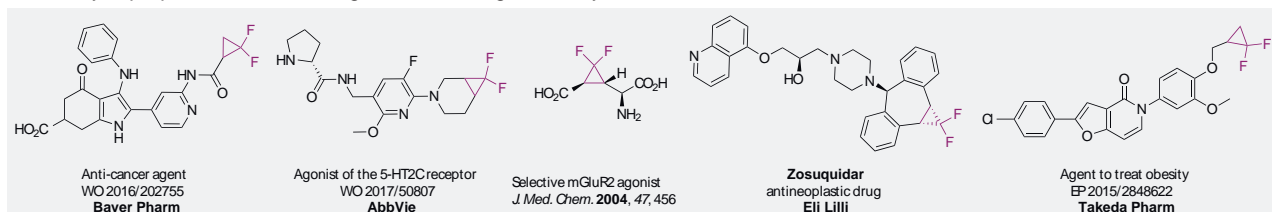


# Difluorocyclopropanes for drug discovery

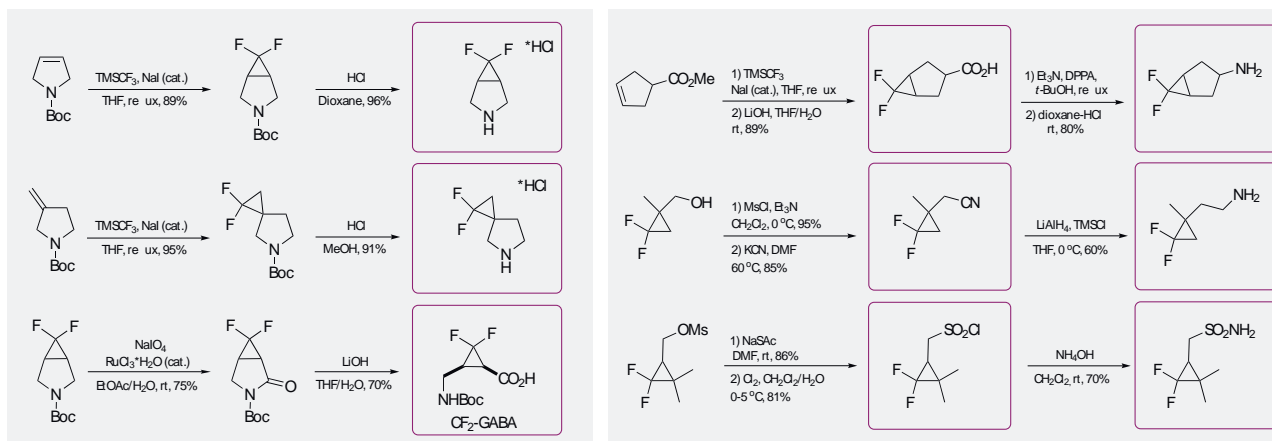
P. Mykhailiuk, R. Bychek, V. Levterov, I. Sadkova, A. Tolmachev

## Introduction and Aim

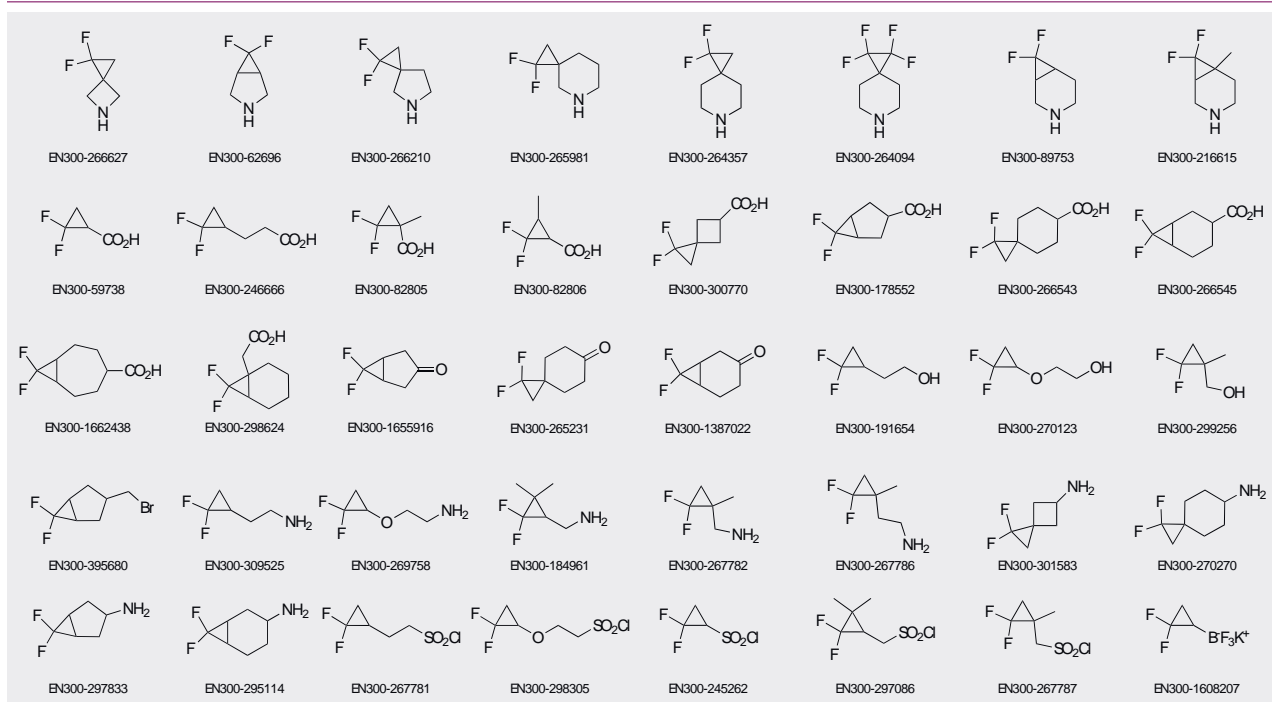
Up to 20% of all modern marketed drugs and even 30% of all agrochemicals are fluorine-containing organic compounds.<sup>1</sup> Difluorocyclopropane-containing compounds also gained popularity in drug discovery in recent years. In 2011, Prakash reported that the combination  $CF_3$ TMS/NaI efficiently converted the non-activated alkenes into the *gem*-difluorocyclopropanes.<sup>2</sup> Herein, we aim to use this procedure to convert the functionalized non-activated alkenes - amines, esters, nitriles, ethers and ketals - into the functionalized difluorocyclopropanes: novel building blocks for drug discovery.<sup>3</sup>



## Synthesis



## Results



## Contact

Pavel Mykhailiuk, Dr. Sci., PhD  
Pavel.Mykhailiuk@mail.enamine.net, www.mykhailiukchem.org  
Enamine Ltd, www.enamine.net  
78 Chervonotkatska St, 026094 Kyiv, Ukraine

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