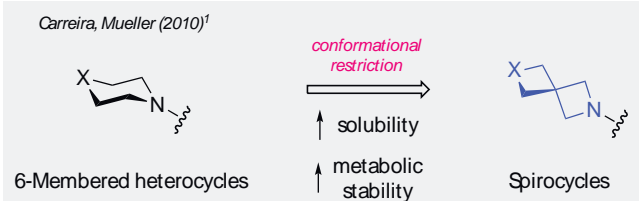


Novel spirocycles for drug discovery

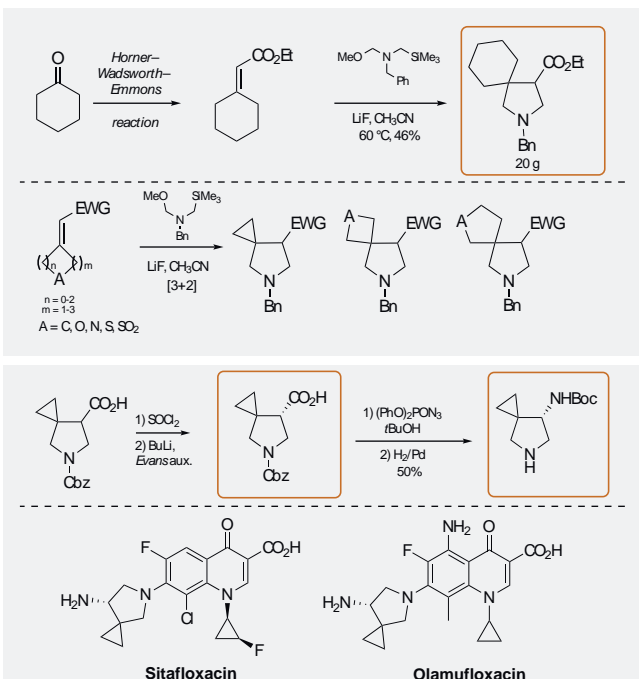
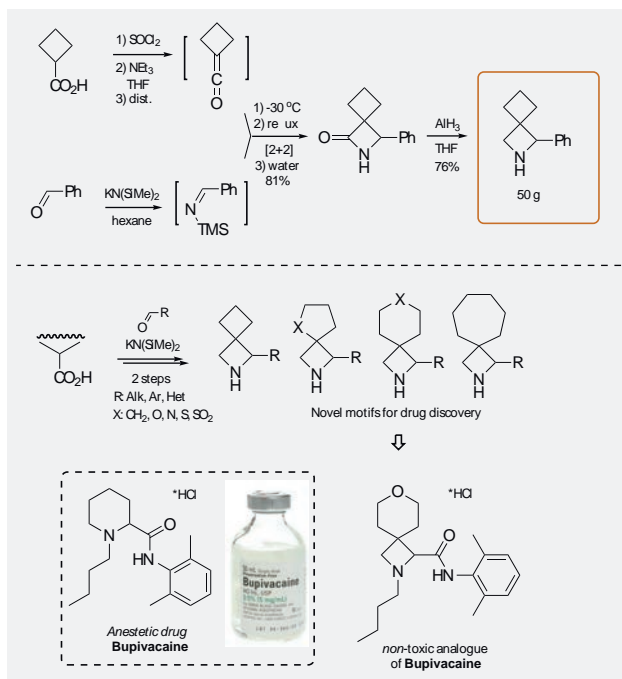
Mykhailiuk P.; Kirichok A.; Shton I.; Pishel I.; Zozulya S.; Borysko P.; Kubyshekin V.; Zaporozhets O.; Kliachyna M.; Chalyk B.; Butko M.; Yanshyna O.; Gavrilenko K.; Druzhenko T.; Isakov A.; Hrebeniuk K.; Savych O.; Kucher O.; Yarmolchuk V.; Tolmachev A.

Introduction and Aim

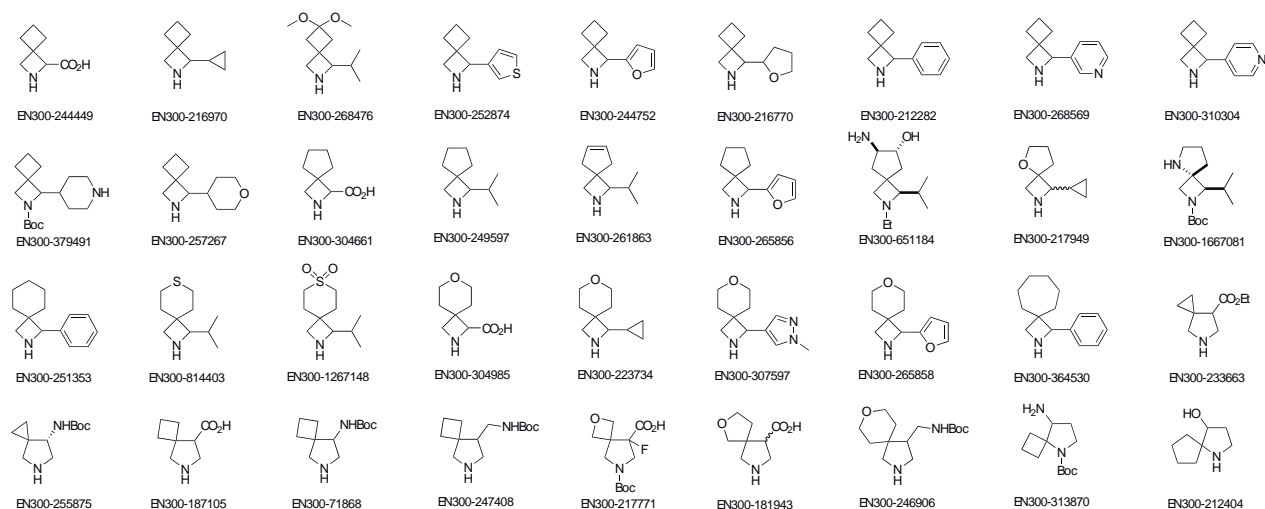
L-Proline is a natural amino acid playing an important role in drug discovery as a cheap chiral bifunctional building block. Over the past decade unnatural analogues of Proline also became extremely popular. In this work, we have rationally designed, synthesized and applied a library of novel/previously scarcely available analogues of Proline in medicinal chemistry.¹⁻¹⁰



Synthesis



Results



Contact

Pavel Mykhailiuk, Dr. Sci., PhD
Pavel.Mykhailiuk@mail.enamine.net, www.mykhailiukchem.org
Enamine Ltd, www.enamine.net
78 Chervonotkatska St, 02660 Kyiv, Ukraine

References

- J. A. Burkhardt et al. *Angew. Chem. Int. Ed.* **2010**, 3524.
- A. A. Kirichok et al. *Angew. Chem. Int. Ed.* **2017**, 8865.
- B. A. Chalyk et al. *Eur. J. Org. Chem.* **2017**, 4530.
- B. A. Chalyk et al. *Chem. Eur. J.* **2017**, 16782.
- A. A. Kirichok et al. *Chem. Eur. J.* **2018**, in press (DOI: 10.1002/chem.201800193).