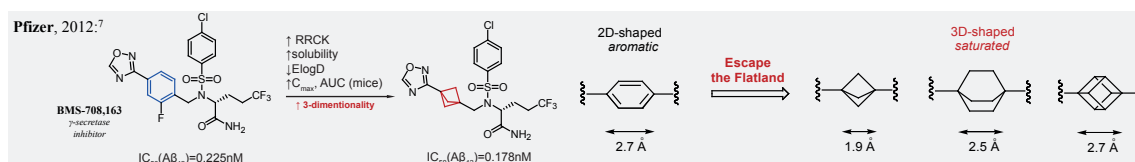


Design and synthesis of novel 3D-shaped building blocks to “Escape the Flatland”

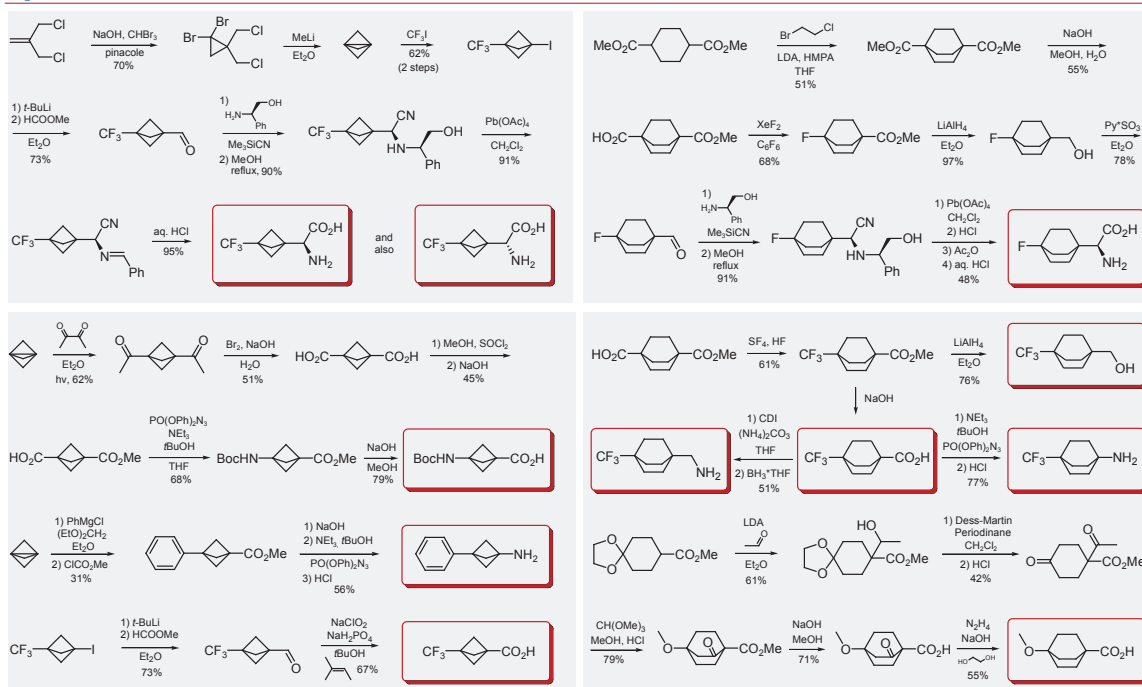
Bandak, D.; Dmytriv Y.; Iakymenko, A.; Komarov, I.; Kokhan, S.; Korolyov, A.; Mitiuk, A.; Mykhailiuk, P.; Pavlenko, S.; Tymtsunik, A.; Tolmachev, A.

Introduction and Aim

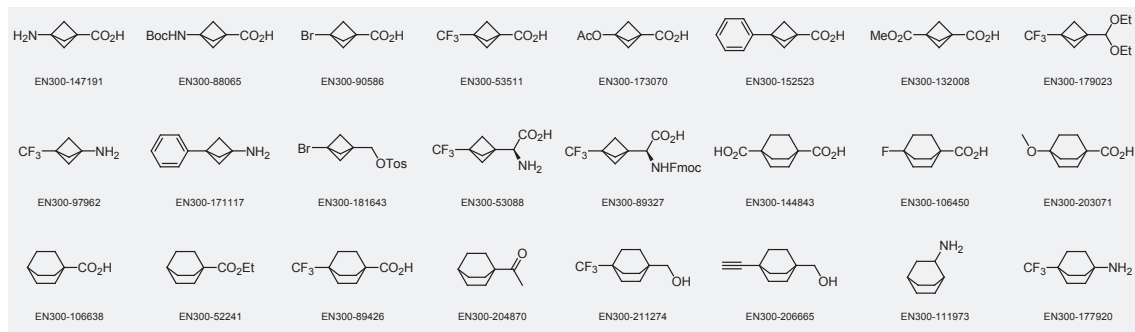
“Escape the Flatland” concept has already gained a considerable attention in medicinal chemistry.^{1,2} Scientists are looking more and more now on 3D-shaped saturated building blocks.³⁻⁶ For example, in 2012 chemists at Pfizer showed that replacing benzene ring in BMS-108,163 by bicyclo[1.1.1]pentyl skeleton beneficially affected activity and ADMET-characteristics of the compound.⁷ In this context, herein we have carefully designed and synthesized a library novel 3D-shaped building blocks to “Escape the Flatland”.⁸⁻¹⁰



Synthesis



Results



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