

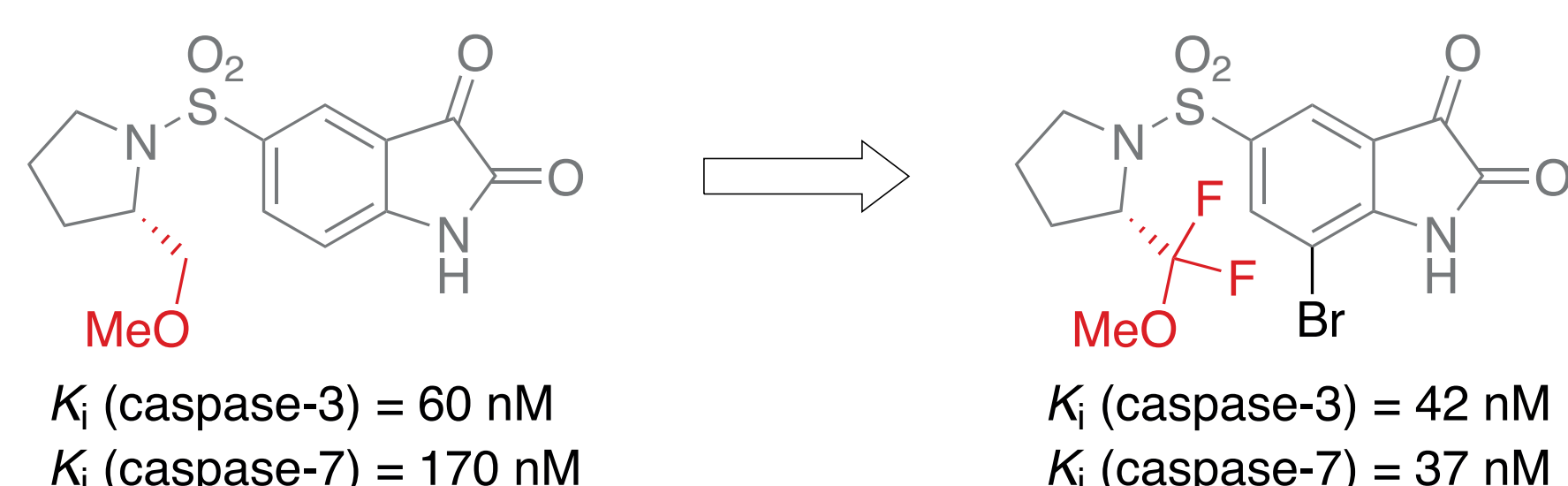
CF₂OMe-decorated aliphatic amines as perspectives building blocks for medicinal chemistry

M. Pashko, D. Granat, Y. Yagupolskii, D. Volochnyuk, S. Ryabukhin

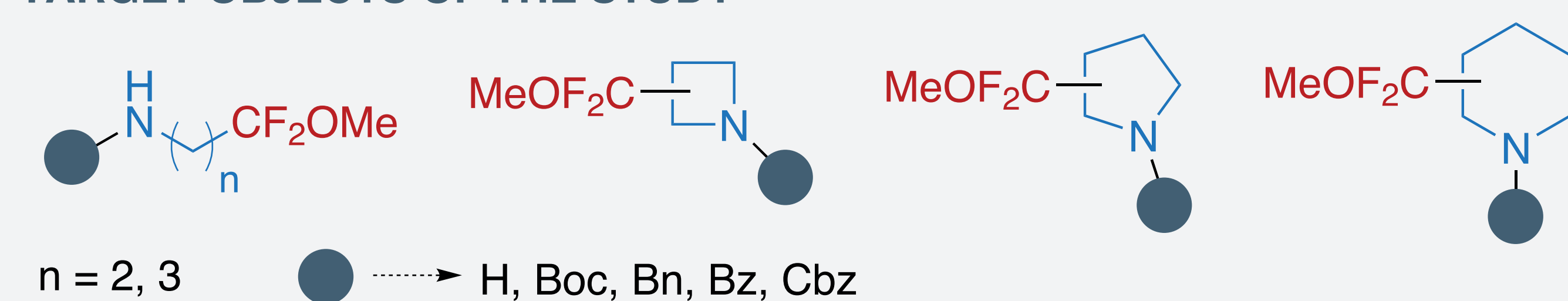
Background of the project

Among the numerous fluorine-containing functionalities, CF₂OAlk is still an enigmatic fragment in terms of its construction and properties:

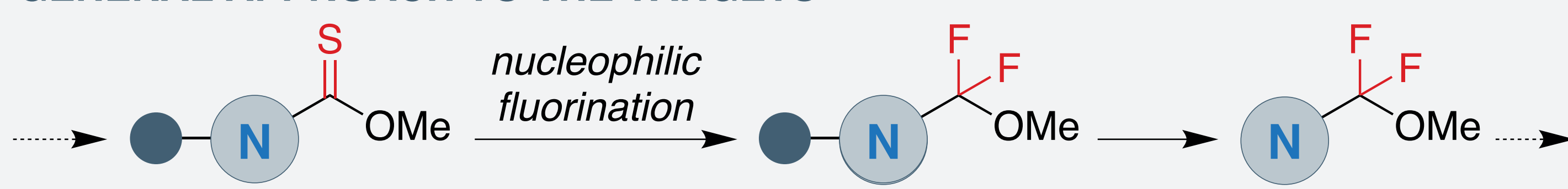
- highly polarized functional group
- increase dielectric anisotropy and stability while broadening the nematic phase range of LCs
- enhance metabolic stability and impart unique conformational properties to molecules
- CF₃ → CF₂OAlk shift decreases environmental stability



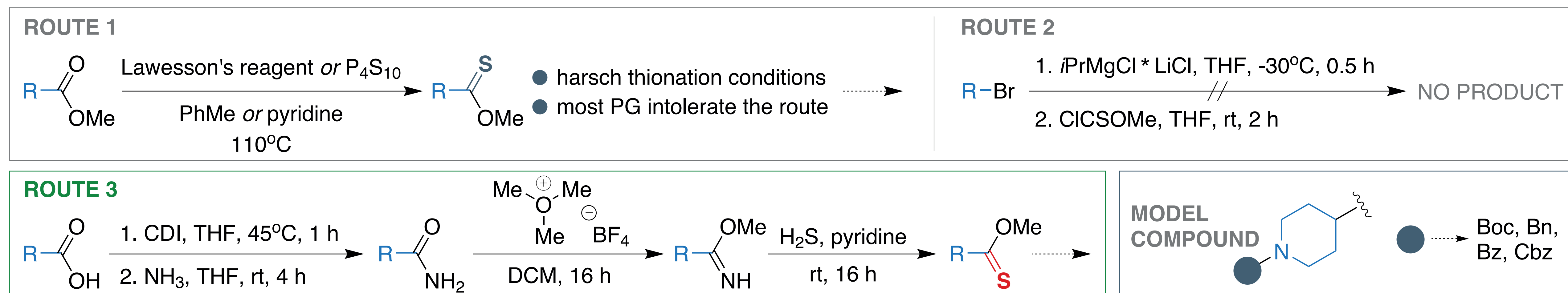
TARGET OBJECTS OF THE STUDY



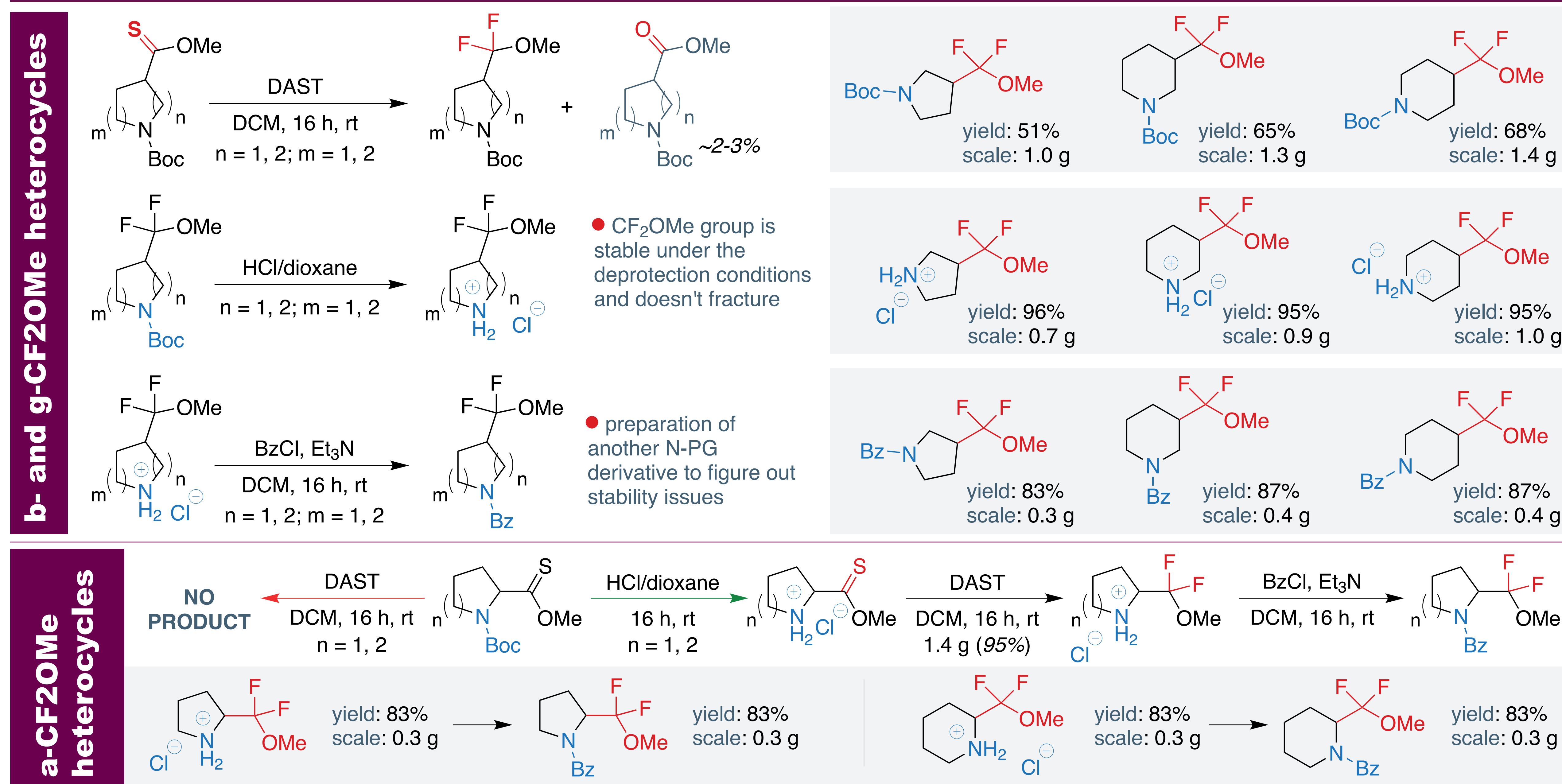
GENERAL APPROACH TO THE TARGETS



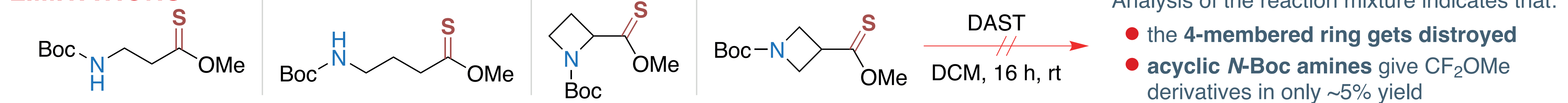
Selecting a strategy for amino-functionalized thionoesters



Outline of the synthetic results

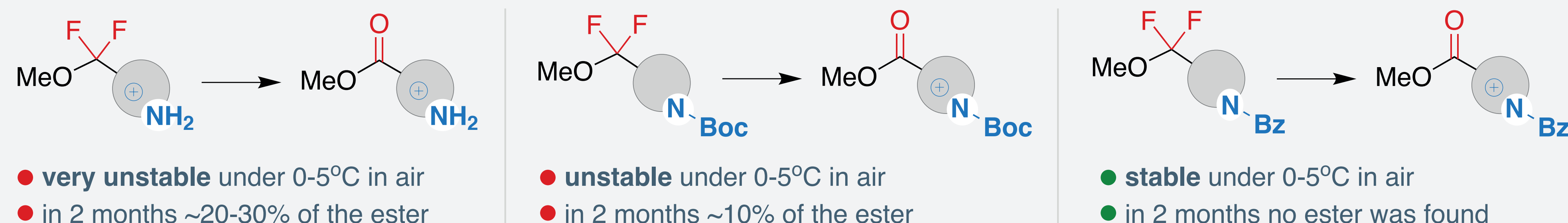


LIMITATIONS



STABILITY STUDIES

- literature data are bitty



Contact

Sergey V. Ryabukhin, Prof. Dr. Sci.; s.v.ryabukhin@gmail.com,
 Dmitriy M. Volochnyuk, Prof. Dr. Sci. d.volochnyuk@gmail.com,
 Enamine Ltd, www.enamine.net
 78 Winston Churchill St, 02094, Kyiv, Ukraine