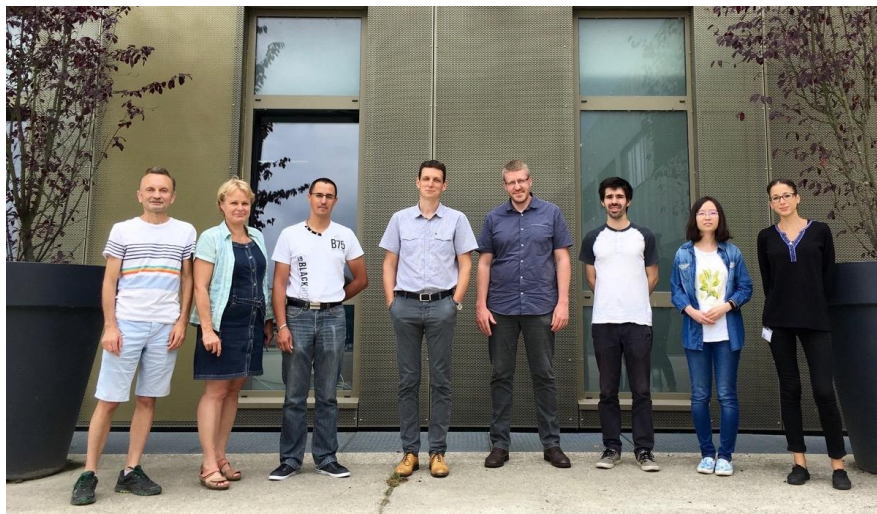




Team « Biomolécules, Synthesis and methods »



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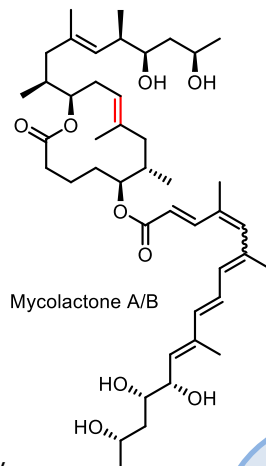
Research group web page : bsm.unistra.fr



Research topics « Biomolecules, Syntheses and methods »

Total synthesis of natural products

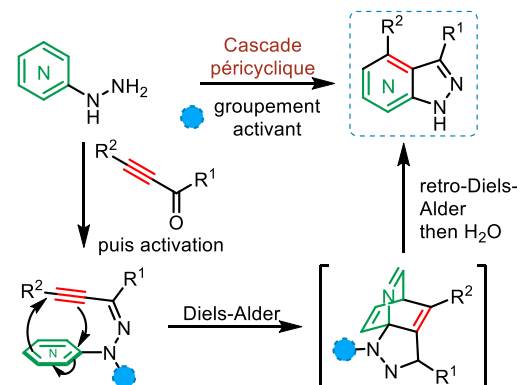
Multi-steps synthesis



In collaboration with the Pasteur Institute for chemical biology study

Synthesis of nitrogen containing heterocycles

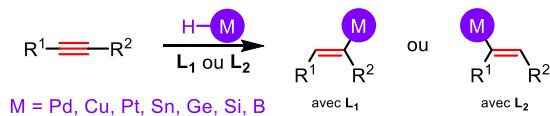
In collaboration with Novartis



Alkynes



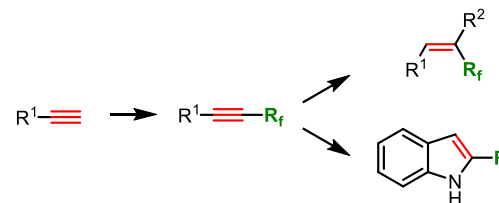
Transition metal-catalyzed reactions



Regio-, chemo- and stereocontrolled reactions for the synthesis of functionalized small organic fragments

Fluorine chemistry

Fluorinated groups : R_f = CF₃ and SF₅

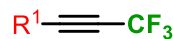


Stereoselective synthesis and heterocyclic chemistry

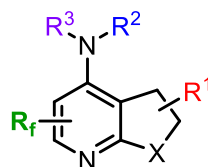
Selected examples of fluorinated molecules made by our group

Keywords

heterocycles
Diels-Alder SF₅
pyridines hydrometallation
trifluoromethylation
alkynes isomerization
nitrogen allenes
catalysis
CF₃
pentallaurosulfanylation
(aza)indazoles



Adv. Synth. Catal. **2014**, 356, 2051



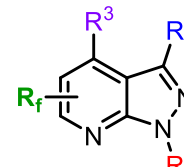
$R_f = F \text{ or } CF_3$ and $X = O, S, NR$

Org. Lett. **2016**, 18, 1610
J. Org. Chem. **2017**, 82, 1726



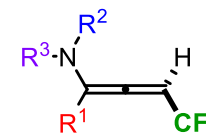
$X = SnR_3, GeR_3, SiR_3, I \text{ or } Ar$

Org. Lett. **2015**, 17, 1794
Synthesis **2016**, 48, 3317

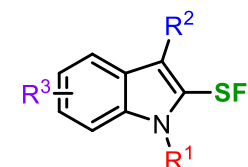


$R_f = F \text{ or } CF_3$

J. Am. Chem. Soc. **2019**, 141, 15901
Org. Process. Res. Dev. **2020**, 24, 776



Synlett **2016**, 27, 2575



ACS Org. Inorg. Au **2021**,
DOI:10.1021/acsoiginorgau.1c00010

Collaboration and fundings



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