



RÉSEAU FRANÇAIS DU FLUOR

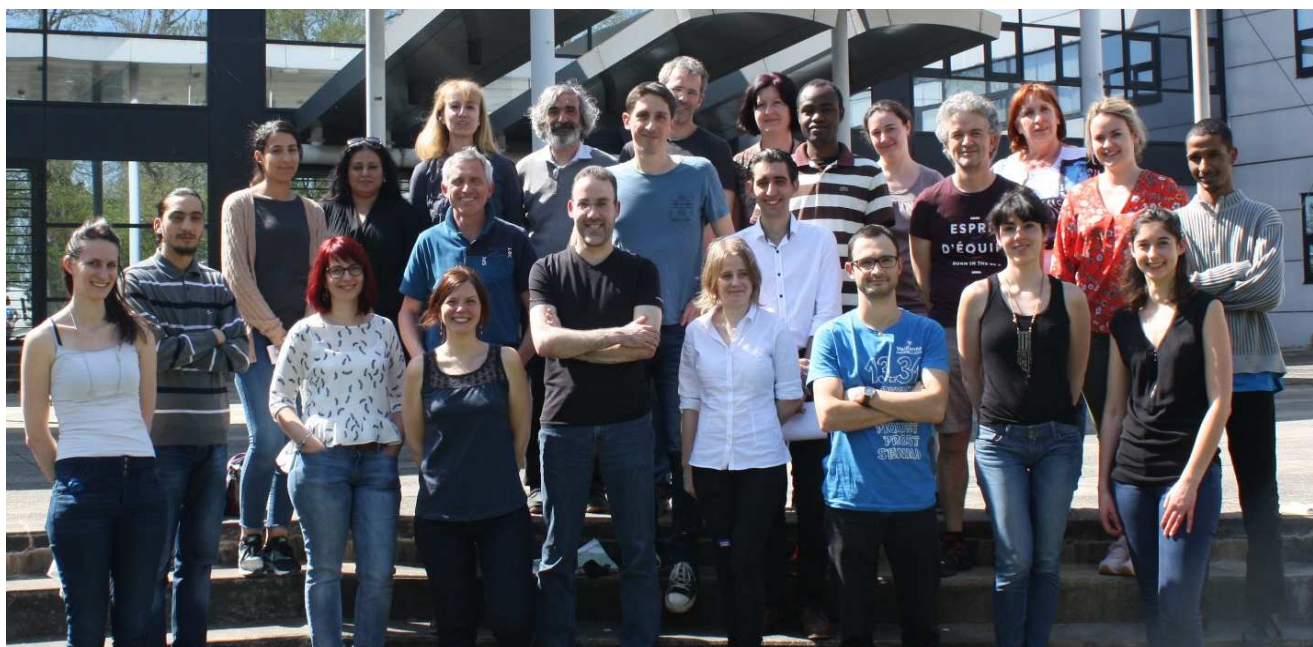


Réseau Français du Fluor - CNRS

**Laboratoire de Synthèse et Isolement de Molécules BioActives
(SIMBA – EA 7502)**

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Keywords : Heterocyclic chemistry, Catalysis, Fluorine chemistry, Infectiology, Cancer



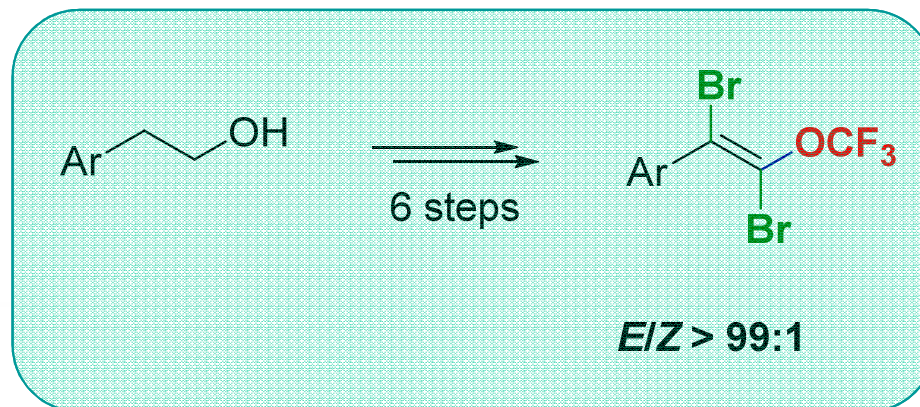
Principal Investigators :

**Yvan Carcenac
Jérôme Thibonnet**

Title : Conception of new trifluoromethoxylated building blocks

Aim: Preparation of ethylenic highly functionalized building blocks bearing a OCF₃ group

Method: Six-steps diastereoselective synthesis starting from 2-arylethanol



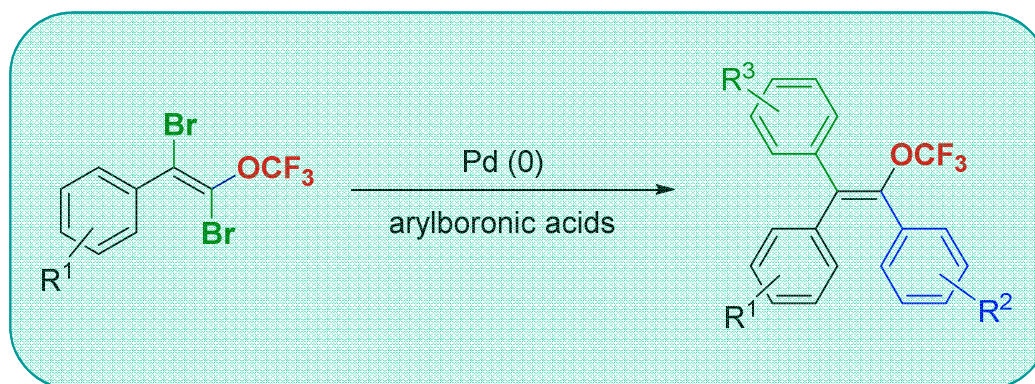
- Cheap and high-yield synthesis
- Multigram scale
- Total control of the diastereoselectivity

Title : Synthesis of fluorinated analogs of therapeutic compounds

Aim: Preparation of a library of trifluoromethoxylated analogs of Tamoxifen

Method: One-pot Pd-catalyzed double cross-coupling reactions

Collaborations: Equipe « Nutrition, Croissance et Cancer », Université de Tours



- Complete regioselectivity
- Access to a large variety of trifluoromethoxylated analogs (70 molecules)
- Inhibitory activity on cancer cell migration