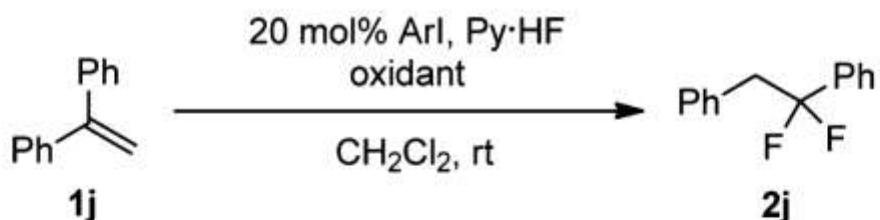


**Hypervalent Iodine-Mediated Fluorination of Styrene Derivatives: Stoichiometric and Catalytic Transformation to 2,2-Difluoroethylarenes**

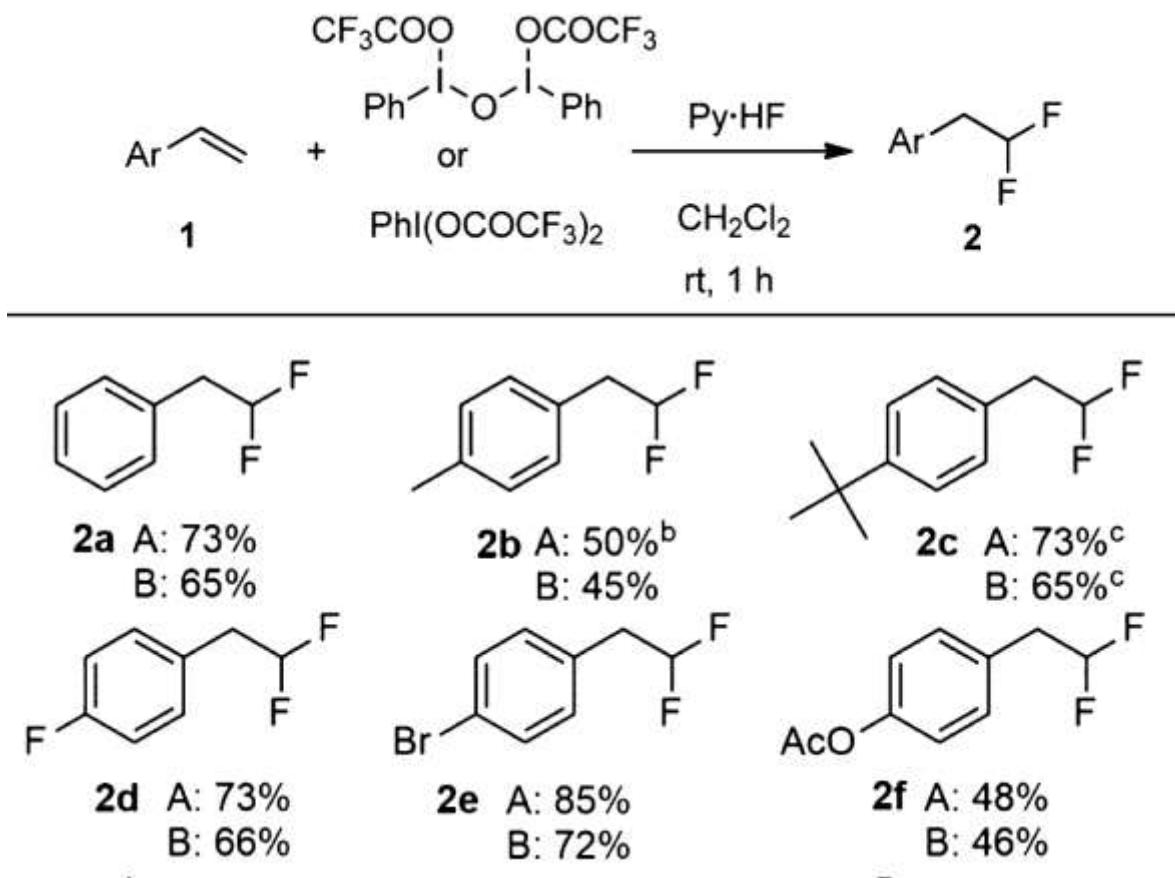
Tsugio Kitamura, Kensuke Muta, and Juzo Oyamada

**J. Org. Chem. 2015, 80, 10431–10436**



entry	iodoarene	oxidant	time (h)	yield (%) <sup>b</sup>
1	2-MeOC <sub>6</sub> H <sub>4</sub> I	<i>m</i> -CPBA	17	48
2	2-MeOC <sub>6</sub> H <sub>4</sub> I	NaClO·5H <sub>2</sub> O	17	0
3	2-MeOC <sub>6</sub> H <sub>4</sub> I	30% H <sub>2</sub> O <sub>2</sub>	17	0
4	2-MeOC <sub>6</sub> H <sub>4</sub> I	<i>t</i> -BuOOH	17	0
5	2,4,6-(MeO) <sub>3</sub> C <sub>6</sub> H <sub>2</sub> I	<i>m</i> -CPBA	17	1
6	4-MeOC <sub>6</sub> H <sub>4</sub> I	<i>m</i> -CPBA	17	6
7	2,4,6-Me <sub>3</sub> C <sub>6</sub> H <sub>2</sub> I	<i>m</i> -CPBA	17	45
8	2-MeC <sub>6</sub> H <sub>4</sub> I	<i>m</i> -CPBA	17	42
9	4-MeC <sub>6</sub> H <sub>4</sub> I	<i>m</i> -CPBA	17	49
10		<i>m</i> -CPBA	17	0
11 <sup>c</sup>	4-MeC <sub>6</sub> H <sub>4</sub> I	<i>m</i> -CPBA	17	49
12 <sup>d</sup>	4-MeC <sub>6</sub> H <sub>4</sub> I	<i>m</i> -CPBA	17	47
13	4-MeC <sub>6</sub> H <sub>4</sub> I	<i>m</i> -CPBA	3	49
14	4-MeC <sub>6</sub> H <sub>4</sub> I	<i>m</i> -CPBA	0.5	50

<sup>a</sup>Conditions: **1j** (0.5 mmol), ArI (0.1 mmol), Py·HF (10 mmol HF), and an oxidant (0.75 mmol) in CH<sub>2</sub>Cl<sub>2</sub> (2 mL) at rt. <sup>b</sup>Yields were determined by <sup>19</sup>F NMR. <sup>c</sup>Reaction was carried out at 40 °C. <sup>d</sup>*m*-CPBA (1.0 mmol) was used.

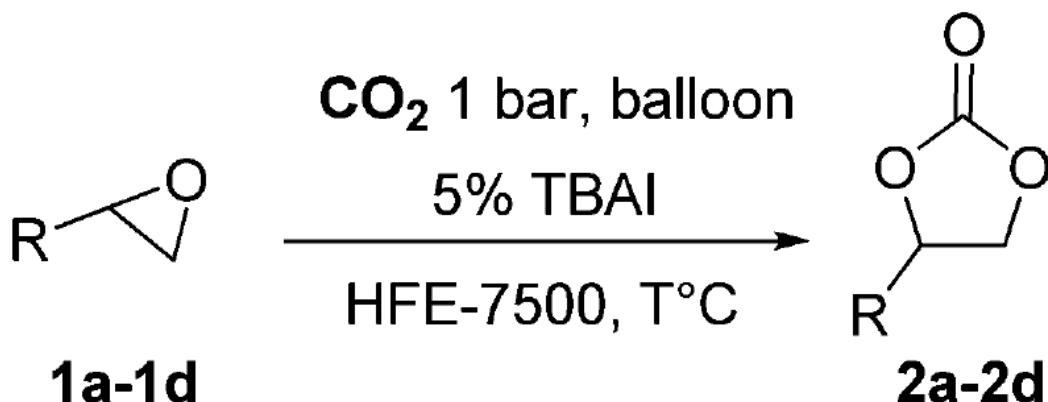


## Chemical Communications

**Reactivity of carbon dioxide in hydrofluoroethers:a facile access to cyclic carbonates**

Marius Mamone, Thierry Milcent and Benoit Crousse

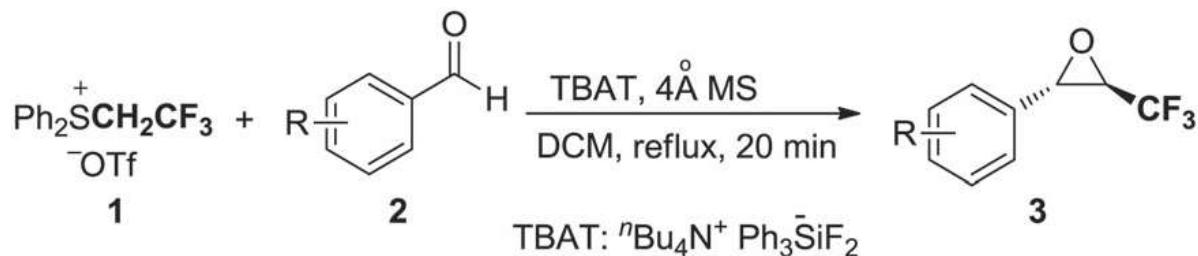
Chem. Commun., 2015, 51, 12736-12739



# Diastereoselective Johnson–Corey–Chaykovsky trifluoroethylidenation

Yaya Duan, Bin Zhou, Jin-Hong Lin and Ji-Chang Xiao

Chem. Commun., 2015, 51, 13127-13130

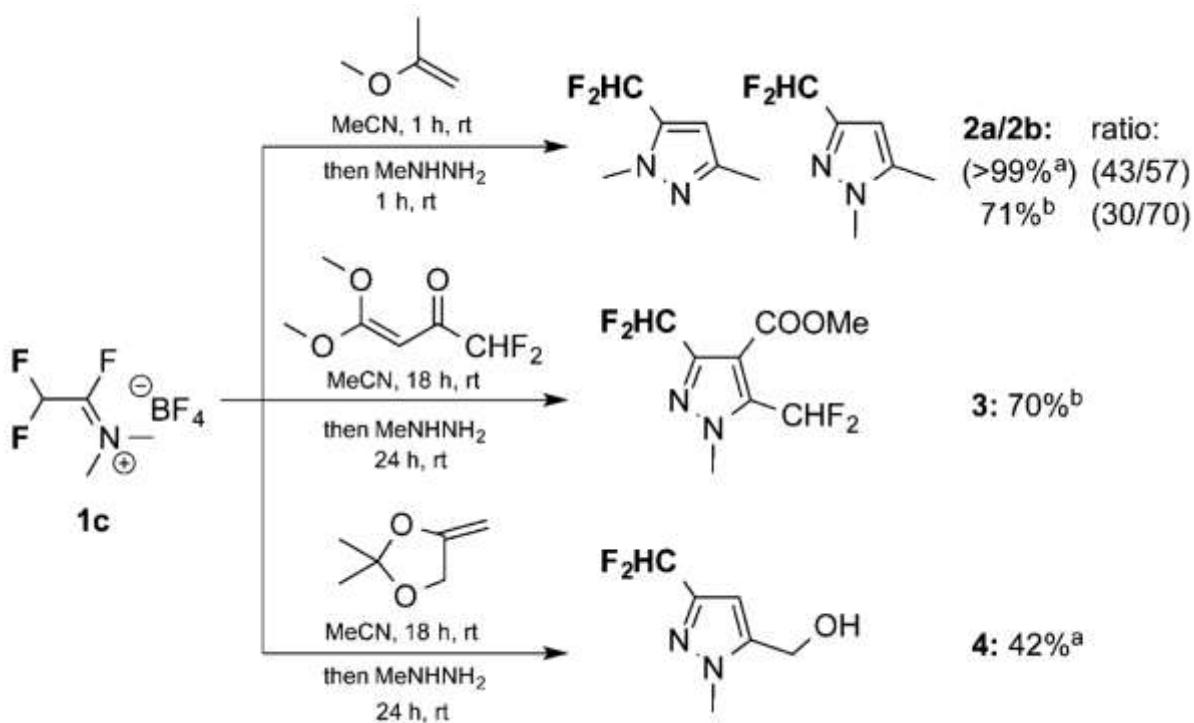


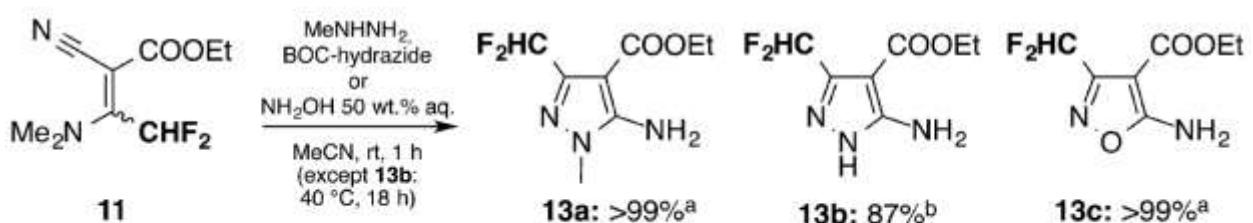
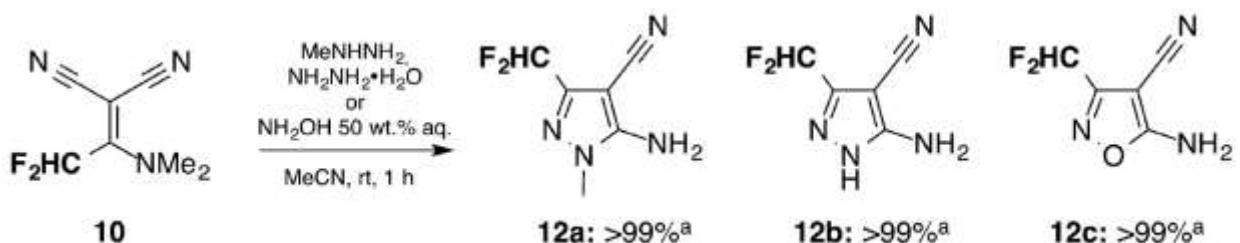
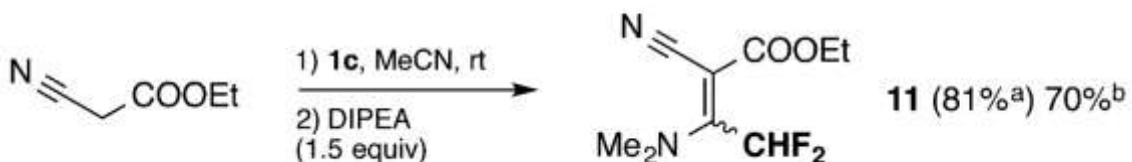
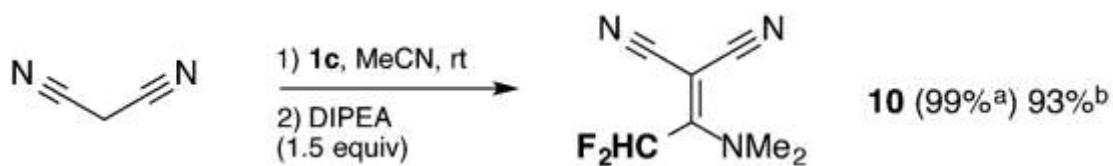
## Organic Letters

### In Situ Generated Fluorinated Iminium Salts for Difluoromethylation and Difluoroacetylation

Etienne Schmitt, Baptiste Rugeri, Armen Panossian, Jean-Pierre Vors, Sergii Pazenok, and Frédéric R. Leroux

Org. Lett. 2015, 17, 4510–4513



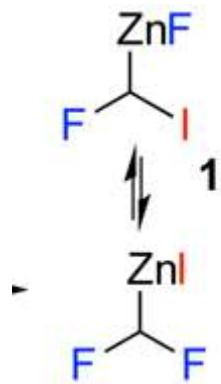


<sup>a</sup><sup>19</sup>F NMR yield using PhF as internal standard. <sup>b</sup>Isolated yield.

### Diastereoselective Fluorocyclopropanation of Chiral Allylic Alcohols Using an $\alpha$ -Fluoroiodomethylzinc Carbenoid

Chandrasekhar Navuluri and André B. Charette

Org. Lett. 2015, 17, 4288–4291

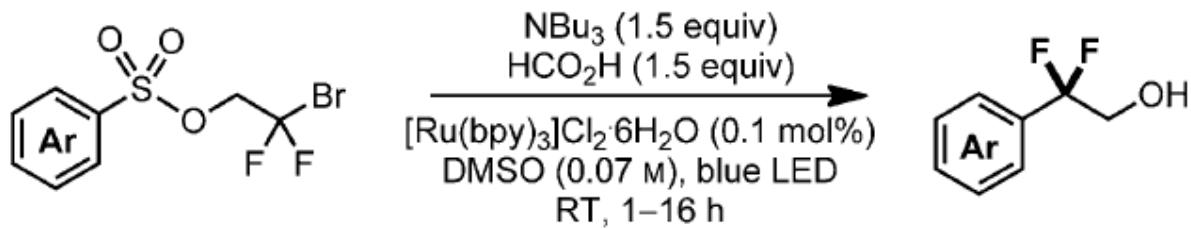


**Angewandte Chemie International Edition**

**A Visible-Light-Mediated Radical Smiles Rearrangement and its Application to the Synthesis of a Difluoro-Substituted Spirocyclic ORL-1 Antagonist**

James J. Douglas, Haley Albright, Martin J. Sevrin, Kevin P. Cole, and Corey R. J. Stephenson

**Angew. Chem. Int. Ed.** 2015, 54, 14898–14902



**Angew. Chem. Int. Ed.** 2015, 54, 15289–15293

**Catalysis Communications**

**Catal. Comm.** 2015, 71, 13–16