

New Publication by CADIAC in *Angewandte Chemie International Edition*

Chemists from *The Carbon Dioxide Activation Center* have recently published a communication in *Angewandte Chemie International Edition* with the title “*Direct Access to Aryl Bis(trifluoromethyl)carbinols from Aryl Bromides or Fluorosulfates via a Pd-Catalyzed Carbonylation*”, *Angew. Chem. Int. Ed.* **2018**, doi: 10.1002/anie.201802647. From iNANO and the Department of Chemistry, the authors include Katrine Domino, Benjamin A. Wahlqvist, Cecilie Gaardbo, Karoline T. Neumann, Kim Daasbjerg, Kim Daasbjerg and Troels Skrydstrup. Furthermore, the work was carried out in collaboration with Cedrick Verysse and Wim M. De Borggraeve from KU Leuven.

In this work, transition metal catalysis is applied to introduce an important fluorine-containing motif to an aromatic core starting from an aryl halide. The so-called bis(trifluoromethyl)carbinol group represents an important bioisostere of a carboxylic acid and there is a general interest from the pharmaceutical industry for the installation of this functional group in bioactive molecules, as its acidity is relatively low and the group displays a great lipophilicity than carboxylic acids. This transformation was achieved through the use of the C-1 building block, carbon monoxide, to generate an intermediate acid fluoride followed by double addition of Ruppert's reagent. This work was generously supported by the Danish National Research Foundation.

