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NEW METHODOLOGY FOR FLUORINATED BIOACTIVE COMPOUNDS

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To develop new methodology directed to the synthesis of fluorinated bioactive compounds, we have investigated trifluoromethylation utilizing trifluoromethylcopper complex, stereospecific synthesis of fluoroolefins and difluoromethylene compounds through the ring-opening reactions of gem-difluorocyclopropane derivatives and 3,3,3-trifluoropropylation of aromatic compounds. Some applications of these reactions for the synthesis of fluorinated bioactive compounds will also be described.