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FLUOROALCOHOLS AS VERSATILE INTERMEDIATES FOR THE PREPARATION OF MONOFLUORINATED COMPOUNDS OF BIOLOGICAL AND PHARMACOLOGICAL INTEREST

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Ring-opening of α-fonctionalized oxiranes (i.e. glycidic derivatives) by hydrogen fluoride in pyridine solution provides a good method for the preparation of fluoroalcohols (i.e. β-fluorolactates, β-fluorocyanohydrins, ...) which allow the obtaining of numerous fluorine containing molecules of biological and pharmacological interest. The reactions gave good yields and were convenient, since the reagent (i.e. Olah's reagent) is easy to handle.
The synthetic schemes are shown below.