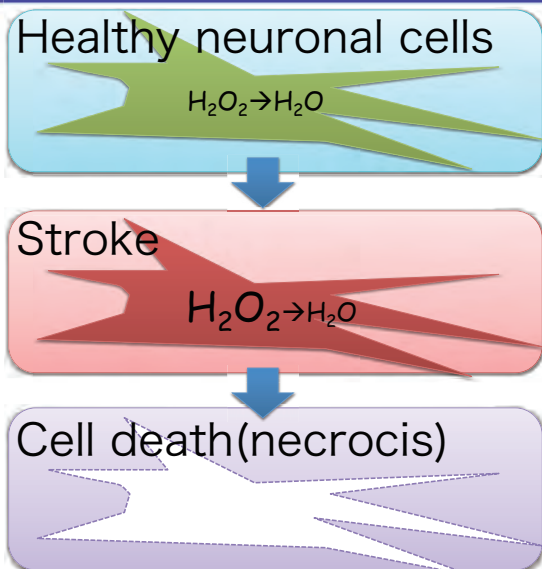


# Synthesis of novel the indole containing compounds for cell death inhibition

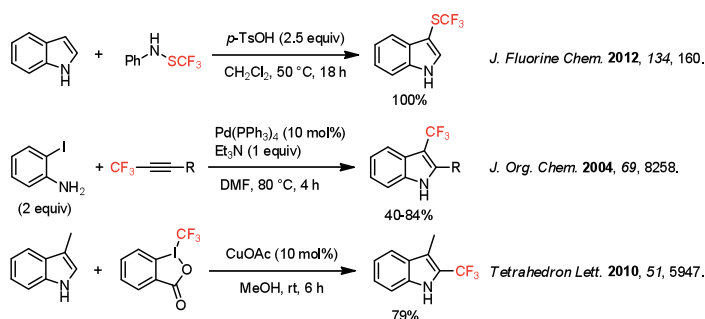
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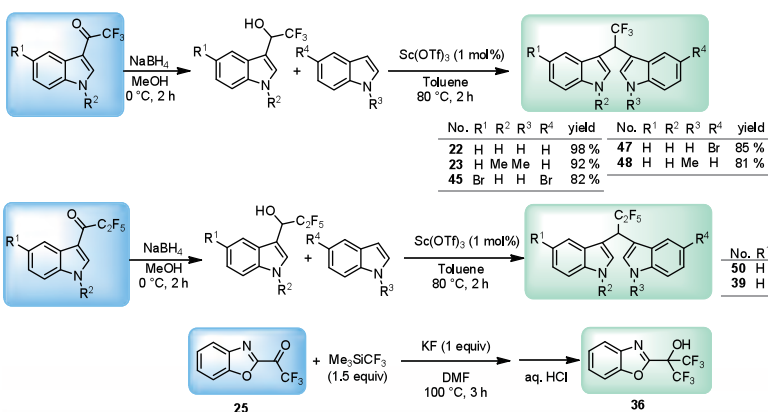


A series of novel fluoroalkyl and indole containing compounds were synthesized and their cell death inhibitory activities were evaluated. Some exhibited stronger activities than known cell death inhibitor, N-acetyl cysteine (NAC). Therefore, these compounds can be potent inhibitors of stroke/liver injury (patent pending).

## Synthesis of Fluoroalkyl-Indoles

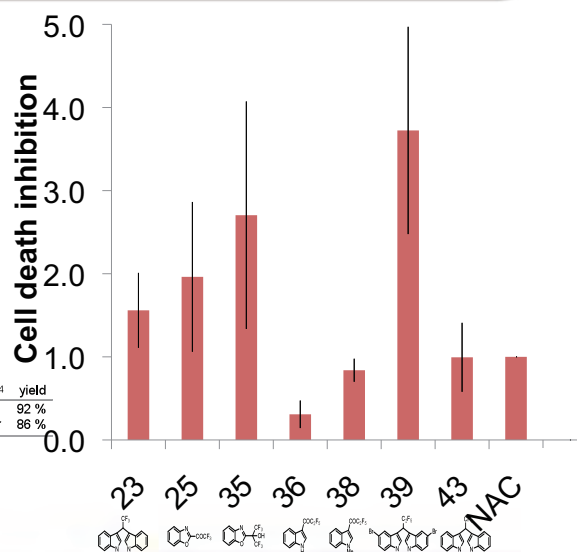


## Synthetic scheme and products



## Cell death inhibition assay

Plate human cervical adenocarcinoma cell (HeLa)  
 Add compounds at 20 μmol/L  
 Add ±H<sub>2</sub>O<sub>2</sub> at 1 mmol/L for cell death induction  
 Measure cell number in 3h  
 Normalize the activity using that of NAC (N-Acetyl cysteine, known cell death inhibitor)



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