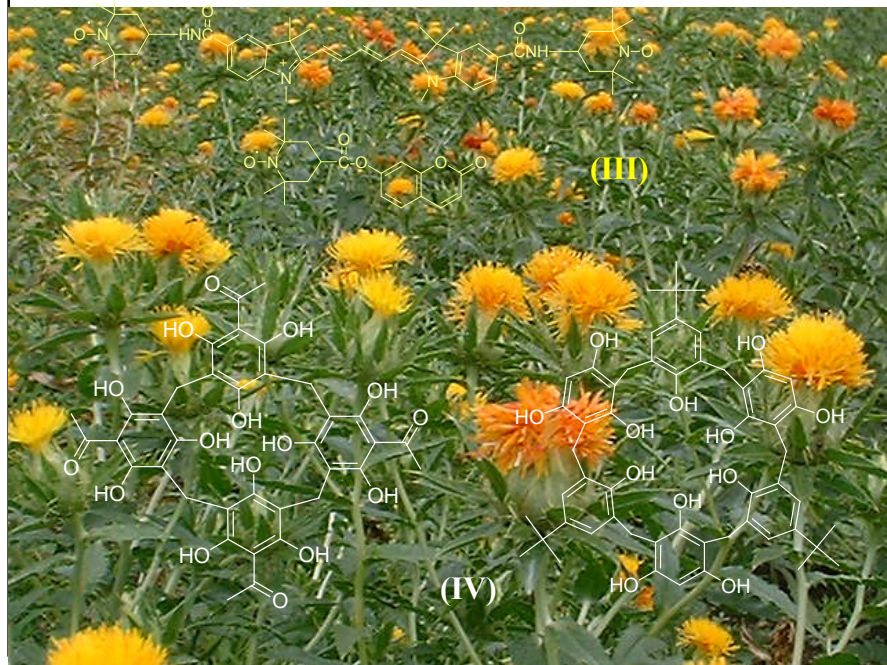
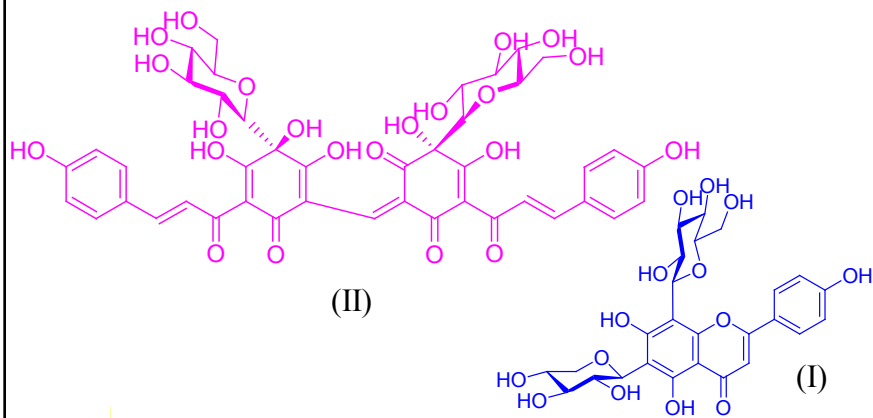


# Synthesis of C-glycosylflavonoids, fluorophore-nitroxyl-radical-hybrid-compounds, and phloroglucin[n]arenes and evaluation of their functionality

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## Illustration



## Content:

Our laboratories' key-compounds are phloroacetophenone, sugar, nitroxide radical, and fluorescent dye.

- 1) Biologically active naturally occurring flavonoid C-glycoside (I and II) were synthesized and synthetic methods of the C-glycosides were developed.
- 2) Glycosylated nitroxyl-radicals and fluorophore-nitroxyl-radical-hybrid-compounds (III) were synthesized and their functionality as a spin-labeled probe evaluating the redox system in vivo was explored.
- 3) Calix[4 and 6]arenes including phloroglucinols (IV) were synthesized and their properties such as cation-inclusion at the various pHs were measured.

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Research Interest : Carbohydrate; Spin Probe; Calixarene

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