www.pacifichem.org

Pacifichem 2010

6 – Agrochemistry

Flavonoids, Synthesis toward Functions (#88)

Kumi Yoshida | Biao Yu | Alan Kozikowski

Abstract Submission: http://www.pacifichem.org/abstracts/index.html

(January 1 - **April 5, 2010.**)

Flavonoids, second metabolites in higher plants, have a long history in chemical research. Recently the studies on flavonoids attract attention again in the area as lead compounds of the drug development and food supplements. And also in industry they are interested as a sustainable solar cell for electric power. Therefore, chemical structural researches, synthetic studies, and biosynthesis and accumulation in plants are in progress. Recent advance in organic synthesis of flavonoids including glycosylated flavonoids, anthocyanins, procyanins, isoflavonoids and chalcones are remarkable. Those development enable to advance functional studies of flavonoids, but major functions almost remain unclear. Therefore synthesis of flavonoids is now more important. This symposium summarizes recent advance on flavonoid synthesis and the relations to aims the future chemistry and the biological function. The symposium cover fields are (1) total synthesis of natural flavonoids including the related polyphenols, biosynthetic and isotope labeled compounds, (2) synthesis of biological, and industrial useful flavonoids for medicine, colorant and electronic devises, (3) search of new functional flavonoid from plants and foods including wine etc., (4) new concept for functions on basis of structural analysis and bioassay.