

Bioactive compounds and their future prospects

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Nature applied flavanoids, glucosinolates and peptides for a great variety of functions. Flavanoids and glucosinolates are rich source of antioxidants, generally present in colored fruits and vegetables. Quercetin and its glucosides are one of the best examples of flavonol used in daily diet. Whereas peptides can act as antimicrobial, chemical messenger, neurotransmitter etc that regulating various life processes. Aspartame, a dipeptide is used as artificial sweetener and oxytocin for medical purposes, gained importance in everyday life. So, flavanoids, glucosinolates, peptides and their derivatives continue to hold the attention of synthetic chemists, agriculturists and biologists. Apart from a variety of naturally occurring bioactive metabolites, we are aiming to extract, separate and synthesize new analogs of promising natural drug candidates.

